STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

APPLICATION FOR PERMIT TO DRILL

5. MINERAL LEASE NO: **FEE * See Page 1 SUPO**	6. SURFACE: **FEE**
7. IF INDIAN, ALLOTTEE OR TRIBE NAME: **N/A**	
8. UNIT or CA AGREEMENT NAME: **N/A**	
9. WELL NAME and NUMBER: **Blackhawk A-5H**	
10. FIELD AND POOL, OR WILDCAT: **Helper / Ferron A**	
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **NENE Sec. 20 T13S-R10E S.L.B.&M.**	
12. COUNTY: **Carbon**	13. STATE **UTAH**

1A. TYPE OF WORK: DRILL [X] REENTER [ ] DEEPEN [ ]

B. TYPE OF WELL: OIL [ ] GAS [ ] OTHER X CBM SINGLE ZONE [X] MULTIPLE ZONE [ ]

2. NAME OF OPERATOR: **Anadarko Petroleum Corporation**

3. ADDRESS OF OPERATOR: **1099 18th Street, Denver, CO 80202** (CITY / STATE / ZIP) PHONE NUMBER: **720-929-6000**

4. LOCATION OF WELL (FOOTAGES)

AT SURFACE: **1142' FNL, 263' FEL** Lat: **39.685470** Long: **-110.817271**

AT PROPOSED PRODUCING ZONE: **Three Horizontal (bird foot) orientation to BHL See Attachment**

ML ±923' FSL, ±1216' FWL **ML-L1** ±711' FSL, ±2087' FEL **ML-R2** ±2328' FSL, ±745' FWL

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: **Approximately 8.6 miles from Price, Utah**

15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET)	16. NUMBER OF ACRES IN LEASE:	17. NUMBER OF ACRES ASSIGNED TO THIS WELL:
263'	**106 acres**	**160 acres**
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) **263'**	19. PROPOSED DEPTH: **4,000'**	20. BOND DESCRIPTION: **Utah Statewide Bond: 224351**
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): **6396.9' Ungraded Ground Level**	22. APPROXIMATE DATE WORK WILL START: **July 15, 2008**	23. ESTIMATED DURATION: **45 Days Drilling, 7 Days Completion**

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT	SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT
13-3/8"	**10-3/4", 32.75#, H-40, ST&C**	**0' - 500'**	290 sks Class "A" plus 2% Calcium Chloride + 0.25lb/sk Superflake
			Yield: 1.19 cft/sk, Density: 15.6 ppg (100% excess by volume)
8-3/4"	**7", 20#, J-55, STC**	**0' - 4000'**	598 sks Class "A" plus 2% Calcium Chloride + 0.25lb/sk Superflake
			Yield: 2.06 ft/sk, Density: 12.5 ppg (10% excess by volume)
Drift Diameter	**Concentric Parasite Working String**		
6.331'	**5-1/2", 17#, J-55, ULT-Fj LHT**	**4,000'**	** See Drilling Program Attached for Details

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

[X] WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
[ ] EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
[X] COMPLETE DRILLING PLAN
[ ] FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) **Debby J. Black (Debby.Black@anadarko.com)** TITLE **Staff Regulatory Analyst (Direct 720-929-6472)**

SIGNATURE *Debby J. Black* DATE **April 14, 2008**

(This space for State use only)

Approved by the Utah Division of Oil, Gas and Mining

RECEIVED
APR 29 2008
DIV. OF OIL, GAS & MINING

API NUMBER ASSIGNED: 43-007-31402

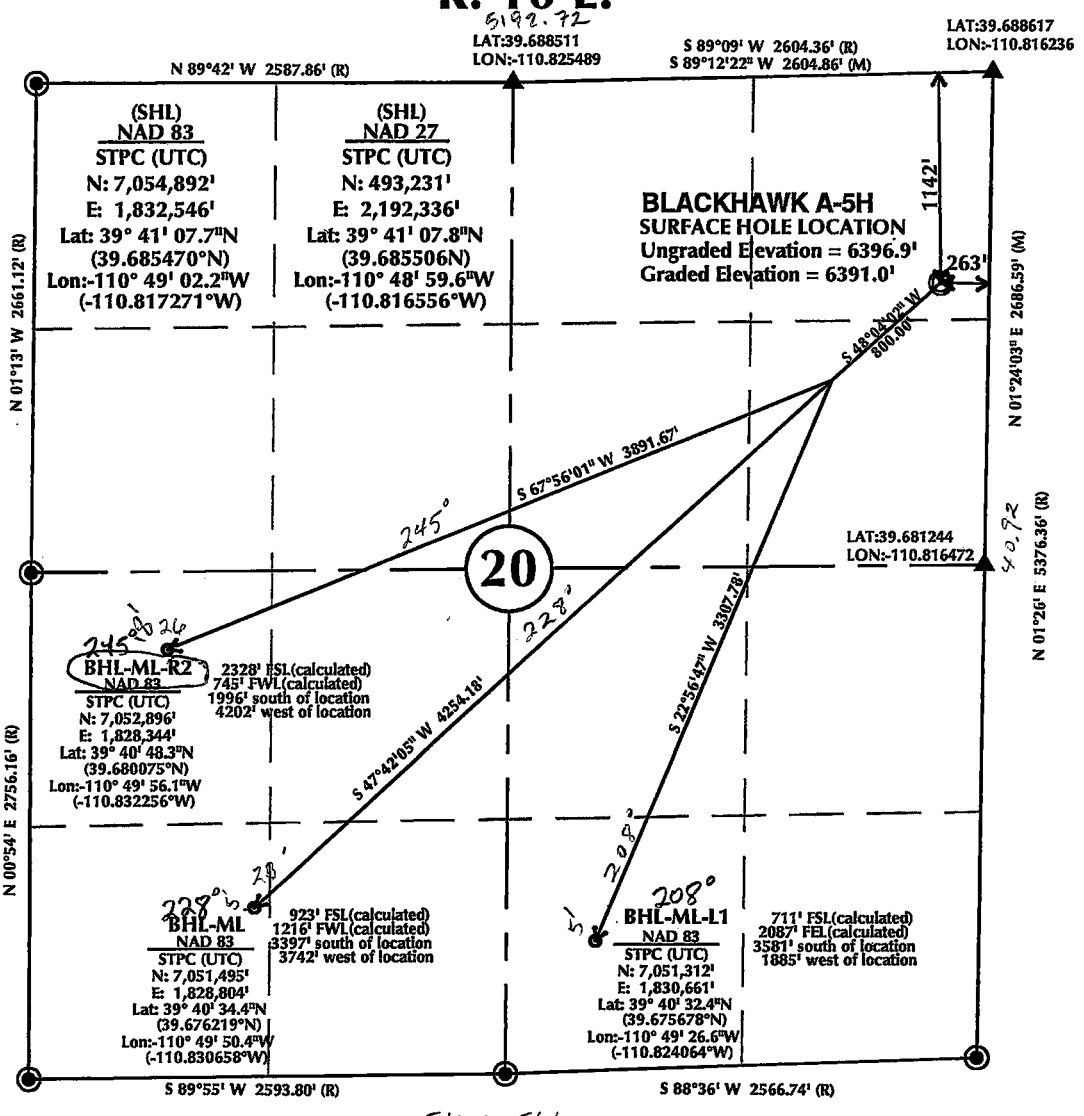
APPROVAL:

Date: 07-01-08

By:

(11/2001)

R. 10 E.



T. 13 S.

Certificate of Surveyor

I, Duane Fehringer do hereby certify that I am a registered land surveyor licensed under the laws of the State of Utah, and that this map was made from notes taken during an actual survey made by me or under my supervision on March 4, 2008 and that it correctly shows the location as staked on the ground during said survey, to the best of my knowledge.

DUANE D. FEHRINGER
PROFESSIONAL LAND SURVEYOR
UTAH REGISTRATION NUMBER 163167

DUANE D. FEHRINGER
No. 163167
04-08-08
STATE OF UTAH
PROFESSIONAL LAND SURVEYOR

NOTES:

1. ▲ INDICATES FOUND 1948 3 1/4" BLM BRASS CAP
2. ◉ INDICATES CALCULATED CORNER POSITION FROM RECORD
3. ELEVATION BASED ON NE COR SEC 20 FROM HELPER USGS QUADRANGLE
4. BASIS OF BEARING IS WGS84
5. BHL = BOTTOM HOLE LOCATION
6. ALL COORDINATES DERIVED FROM AUTONOMOUS GPS SURVEY

Reference Stakes:
150' North - EL: 6428.1'
200' North - EL: 6439.7'
200' West - EL: 6390.2'
250' West - EL: 6405.6'

HORIZONTAL 0 500 1000 1" = 1000'

ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

BLACKHAWK A-5H
WELL PLAT
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=1000'	Date: 04/08/08	SHEET NO:
REVISED:	BY DATE	2 OF 8

SURFACE – 1142 FNL 263 FEL
515751 X 4392602 Y
39.684991 -110.816327

BHL - 923 FSL 1216 FWL
514601 X 4391635 Y
39.676295 -110.829758

BHL – 711 FSL 2087 FEL
515163 X 4391574 Y
39.675735 -110.823197

BHL - 2328 FSL 745 FWL
514463 X 4392062 Y
39.680145 -110.831348

Blackhawk A-5H
NENE Sec. 20 T13S-R10E Carbon County, Utah
1142' FNL and 263' FEL

Three Horizontal (bird foot) Orientation to Bottom Hole Locations
SWSW Sec. 20 T13S-R10E Carbon County, Utah BHL-ML 923' FSL and 1216' FWL
SESW Sec. 20 T13S-R10E Carbon County, Utah BHL-ML-L1 711' FSL and 2087' FEL
NWSW Sec. 20 T13S-R10E Carbon County, Utah BHL-ML-R2 2328' FSL and 745' FWL

OPERATOR: ANADARKO PETROLEUM CORPORATION

MASTER DRILLING PROGNOSIS

1. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

	Total Vertical Depth	
Formation	**Measured**	**Sub Sea**
Mancos (Shale)	**Surf**	
Bluegate Shale	2613	3770
Ferron Coal	3833	2550
Ferron "A" Coal	3900	2471
Base Ferron "A" Coal	3915	2456
Proposed TD	**4000**	
Tununk Shale	4063	2320

2. ESTIMATED DEPTH OF ANTICIPATED WATER, OIL, GAS OR MINERAL FORMATIONS

Primary Objective: Ferron "A" Coal Coalbed Zone

Only one coal seam will be tested for gas production to total depth. All shallow water zones will be protected with casing and cement. Cement will be circulated to surface to isolate formations.

The casing and cementing programs shall be conducted as approved to protect and/or isolate all usable water zones and any prospectively valuable deposits of minerals. All indications of usable water shall be reported to the authorized officer prior to running the next string of casing or before plugging orders are requested, whichever occurs first.

3. MINIMUM BOP REQUIREMENTS: (Refer to attached schematics)

a) The BOPE shall be closed whenever the well is unattended.
b) The BOPE shall be pressure tested when initially installed, whenever any seal subject to pressure testing is broken, after repairs, or every 30 days.
c) Anadarko shall notify the Moab BLM office 24 hours prior to the BOPE test.
d) All BOPE shall meet or exceed the requirements of a 2M system as set forth in Onshore Order No. 2.
e) An accumulator unit will be used that has sufficient capacity to open the hydraulically-controlled choke line valve (if so equipped), close all rams plus the annular preventer and retain 200 psi above precharge on the closing manifold without the use of the closing pumps. The accumulator unit will be located at the master accumulator and on the rig floor. Hydraulic controls will be located at the master accumulator and on the rig floor. Manual controls (hand wheels) will also be installed on the blind and pipe rams.
f) Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or 70 percent of internal yield pressure of casing if BOP stack is not isolated from casing. Pressure shall be maintained for at least 10 minutes or until requirements of test are met, whichever is longer.
g) Annular type preventers shall be tested to 50 percent of rated working pressure. Pressure shall be maintained at least 10 minutes or until provisions of test are met, whichever is longer.
h) Accessories to BOP's include upper and lower Kelly cock valves with handles and floor safety valve, drill string BOP.

4. SUPPLEMENTARY INFORMATION:

The primary objective of this well is to drill, stimulate and produce coalbed methane gas from the Ferron Sandstone Formation in the Helper Field in Carbon County, Utah. Anadarko will do this by barefoot completing three horizontal legs drilled from one mother wellbore in an under balanced situation. All three horizontal wellbores will be drilled in the same Ferron "A" coal bed in what Anadarko is referring to as a birds foot orientation. Wellbore geometry is engineered to maximize the opportunity to encounter natural fractures and permeability orientation within the formation, it is also designed to drill up-dip to aid in fluid removal from the wellbore.

A vertical core will be taken to obtain stratigraphic control in the well and once that is complete, the well will be plugged back and kicked-off horizontally. Once the Ferron Sandstone is encountered, an intermediate string will be set and cemented to surface. A 5-1/2" concentric drill string will then be be utilized as a parasite string inside the intermediate casing and will be set just inside the 7" shoe. From this point on, a dual-phase drilling system will be used to drill three horizontal wellbores with a 2-7/8" Drill String. Horizontal drilling will be controlled by Anadarko's proprietary geo-steering in order to stay within the Ferron "A" zone. A directional plan is attached. 4.5" drill bit

Once the total measured depth has been reached, the concentric parasite string will be removed and the drilling rig will be released. A workover rig with then install tubing and a downhole pump. The well is not planned to be artificially stimulated.

A general directional plan is attached showing final planned bottom hole locations and kick-off points. It is important to note that no production hole will be encountered within the 660' section setback.

5. CASING PROGRAM:

Hole Size	Casing Size	Weight	Grade	Joint	Depth Set	New/Used	Collapse	Burst	Tension
13-3/8"	10-3/4"	32.75	H-40	ST&C	500'	New	880	1820	205,000
8-3/4"	7"	20	J-55	STC	0-4426'	New	2270	3740	234,000

For Concentric Parasite Working String

Drift Diameter	String Size	Weight	Grade	Joint	Depth Set	New/Used	Collapse	Burst	Tension
6.331"	5-1/2"	17	J-55	ULT-FJ LHT	4426'	New	4910	5320	229,000

For each leg, the remainder of the bore holes will be open hole.

Surface Casing:

a) Burst = (Fracture Gradient - Gas Gradient *(TVD - D) - (Backup Mud Weight * Depth)/(19.25))
= (1.2 - 0.10) * (500' - 0')- (0.433 * 0') / 19.25
= 550 psi
Safety Factor = Rating/Burst
= 1820/550
= 3.3

b) Collapse = (Depth of Investigation * Mud Weight - Evacutated Casing)
= [.052 * 9.0 ppg * 500'] - [0.1 * 500']
= 184 psi
Safety Factor = Rating/Collapse
= 880/184
= 4.78

c) Tension = Weight * TVD * [1 – (MW/65.5ppg)] + Margin of Overpull
= 32.75 * 500' * [1 - 8.6/65.5] + 50,000
= 64,225 lbf
Safety Factor = Rating/Tension
= 205,000/64225
= 3191.90

Surface casing shall have centralizers on the bottom 3 joints of the casing, starting with the shoe joint. (minimum of 4 centralizers.)

Intermediate Casing:

a) Burst = (Formation Pressure Gradient - Gas Gradient *(TVD - D) - (Backup Mud Weight * Depth)/(19.25))
= (0.65 - 0.10) * (4100' - 0')- (0.433 * 0') / 19.25
= 2255 psi
Safety Factor = Rating/Burst
= 4980/2255
= 2.36

b) Collapse = (Depth of Investigation * Mud Weight - Evacutated Casing)
= [.052 * 9.0 ppg * 4000'] - [0.1 * 4000']
= 1472 psi
Safety Factor = Rating/Collapse
= 2270/1472
= 1.54

c) Tension Weight = (20 lbs/ft * 4000')* [1-(8.6 ppg/65.5 ppg)] + Margin of Overpull
= (20 lbs/ft * 4000')* 0.868 +150,000
= 219,496 lbf
Safety Factor = Rating/Tension
= 234,000/219,496
= 1066.08

6. MUD PROGRAM:

Anadarko intends to drill the surface hole section in an under balanced state with compressed air. When drilling the surface hole no gas will be encountered and a BOP system will not be used. The length of the blooie line will be sufficient to reach the middle of the reserve pit and therefore a variance is requested from Onshore Order No. 2 with regards to the 100 foot blooie line. Since no gas will be encountered, we will not have an ignition device. In the event that gas is encountered, a continuous ignition system will be installed and utilized on the remainder of the hole.

The intermediate hole section will be drilled with a combination of a compressed air based system and a non-ionic water based system. The air system will be used until core point is reached, at which point the system will be switched over to a non-ionic water based system until the 7" casing seat is reached. A BOP will be used for this entire system. Anadarko respectfully requests variance of Onshore Order No.2 with regards to the 100 foot blooie line, due to pad location and size limitations, Anadarko requests to place the blooie line roughly 60' away from the wellbore into the reserve pit. Continuous flares are not expected from this reservoir as it must be dewatered before the gas can desorb from the coal face. An automatic ignition source will be placed on the end of the blooie line for ignition purposes. This blooie line will be used for the production hole section as well.
The production hole section will be drilled in an under balanced state with the use of a parasite string set inside the 7" casing shoe. Compressed air will be pushed down the 5-1/2" - 7" annulus and a non-ionic water based system will be pumped down the drill string creating a multi-phase drilling fluid system.

Anadarko will use whip checks on all compressor equipment and hoses. There are several fire extinguishers placed on all equipment as well as up to date safety training and paper work.
While drilling with air, Anadarko will maintain sufficient mud and weight materials to kill the water flows or contain gas production if necessary. These materials will not be pre-mixed, but the ability to mix and pump will be on location.
Should water be used to drill through the surface casing setting depth, only fresh water will be used from the source listed in the MSUP.
A mud test shall be performed at least once every 24 hours after mudding up to determine, as applicable: density, viscosity, gel strength, filtration, and pH.

7. CEMENTING PROGRAM:

The following is the proposed procedure for cementing the 10-3/4" surface casing and 7" intermediate casing:

Surface:
Designed to surface with 100% excess by volume
Class "A" + 2% Calcium Chloride + 0.25lb/sk Superflake
Yield: 1.19 cft/sk
Density: 15.6ppg

Volume Pumped = (2 * (Hole Diameter - Casing Diameter) * Casing Length) / Yield
= 290 sx

Kick-Off Plug:
Class "A" + 2% Calcium Chloride + 0.25lb/sk Superflake
Yield: 1.19 cft/sk
Density: 15.6ppg
Volume to be based on rig site calculations sufficient for kick-off plug

Intermediate:
Designed to surface with 10% excess by diameter
Class "A" + 2% Calcium Chloride + 0.25lb/sk Superflake
Yield: 2.06ft3/sk
Density: 12.5ppg

Volume Pumped = (((1.1 * Hole Diameter) - Casing Diameter) * Casing Length) / Yield
= 598 sx
Volumes calculated to circulate cement from TD to surface.

8. LOGGING PROGRAM

Well completion and stimulation procedures will be determined following the evaluation of the drilling results and open hole logs. A "Sundry Notice" will be submitted for approval outlining the planned completion procedure at that time.

Cores: 180' of Whole Core from 3821' to 4000' in the Ferron Coal
DSTs: None
Logs:

	From	To
Dipole Sonic	TD	Surface Casing
GR	TD	Surface Casing
Resistivity	TD	Surface Casing
Neutron-Density-Cal	TD	Surface Casing

9. PRESSURE DATA, POTENTIAL HAZARDS

Bottom hole pressure gradient is anticipated to be a maximum of 0.65 psi/ft in the Mesaverde Coals.
There is no history of hydrogen sulfide gas in the area and none is anticipated.
Anticipated bottom hole pressure (4000' x 0.65) = 2600

10. ANTICIPATED STARTING DATES AND NOTIFICATION OF OPERATIONS:

a) Starting Date 7/15/2008

Anticipated Days:	
Drilling Days:	Approximately 45 Days
Completion Days:	Approximately 7 Days
Testing Days:	Approximately 30-60 Days

b) Notification of Operations:

Bureau of Land Management	
Sub-Surface	Surface
Moab Field Office	Price Field Office
82 East Dogwood	125 South 600 West
Moab, UT 84532	Price, UT 84501
435-259-2100	435-636-3600

Anadarko Petroleum Corporation
Blackhawk A-5H
1,142' FNL 263' FEL (NE/4 NE/4)
Section 20 Township 13 South – Range 10 East
SLB&M
Carbon County, Utah
Fee Surface

BHL-ML: ±923' FSL ±1,216' FWL (SW/4 SW/4)
Section 20 T13S R10E
Federal Lease UTU071675 (at BHL)

BHL-ML-L1: ±711' FSL ±2,087' FEL (SW/4 SE/4)
Section 20 T13S R10E
Fee minerals (at BHL)

BHL-ML-R2: ±2,328' FSL ±745' FWL (NW/4 SW/4)
Section 20 T13S R10E
Federal Lease: UTU071675 (at BHL)

SURFACE USE PLAN OF OPERATIONS

This Application for Permit to Drill (APD) is filed under the APD process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) documents. Anticipated specific concerns of the BLM representatives are addressed herein, as are specific stipulations from the BLM. An on-site meeting can be scheduled with Debby Black of Anadarko Petroleum Corporation (Anadarko) at (720) 929-6472.

* Specific stipulations that may be discussed at the on-site meeting are shown as starred.

WELL LOCATION AND INTRODUCTION:

The proposed location is at 1,142' FNL, 263' FEL (NE/4NE/4), Section 20: T13S-R10E, SLB&M. The well site was surveyed and staked at a geologically preferable location by 609 Consulting, LLC.

DIRECTIONS TO LOCATION

Proceed in a Northerly direction from Price, Utah along U.S. Highway 6 approximately 4.1 miles to the junction of State Highway 139; exit right and proceed in an easterly direction, gradually changing directions to northerly approximately 1.4 miles to the junction of State Highway 157; exit right and proceed in an easterly direction gradually changing to a northeasterly direction approximately 2.2 miles to the junction of an existing well access road; exit left and proceed in a northerly then northeasterly direction for approximately 0.4 miles to the junction of an existing well access road leading to the existing Blackhawk A-3 well; turn left and proceed in a northwesterly direction for approximately 0.3 miles to the entrance to the existing Blackhawk A-3 well pad; follow proposed access road north, from the junction to

the existing Blackhawk A-3 well pad, approximately 0.2 miles to the proposed Blackhawk A-5H well location. Total distance from Price, Utah to the proposed Blackhawk A-5H well location is approximately 8.6 miles.

1) EXISTING ROADS

A) The well is a development well.

B) Existing roads within 1 mile consist of an existing oil field road to within 0.2 miles of location.

C) Plans for improvement and/or maintenance of existing roads are to be maintained in as good or better conditions then at present and said maintenance will continue until final abandonment and reclamation of this drilling location.

2) PLANNED ACCESS ROADS (See Sheet 6)

±1,056' (0.2 miles) – Total new road construction – Fee surface (continued from existing road to the existing BlackHawk A-3 well)

We understand that none of the proposed access road and utility corridor for this location is on Federal surface and will likely not require a Right-of-Way (ROW). However, if needed, this Application for Permit to Drill can serve as a request for BLM to initiate a ROW application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead.

A) Running surface will be crowned/ditched with a running surface ±16' and the total disturbed width to be ±50'. Plans for improvement and/or maintenance of existing roads are to maintain in as good or better conditions than at present. A regular maintenance plan will include, but not be limited to blading, ditching, and surfacing.

B) Borrow ditches to be back sloped 3:1 or shallower.

C) Maximum grades will not exceed BLM standards.

D) Culverts and low-water crossings will be installed as needed prior to drilling. Drainage to consist of borrow ditches on both sides and "wind ditches" as appropriate. Riprap will be placed at the inlet and outlet at the culvert adjacent to the wellpad. Low water crossings may be used during drilling and upon completion if conditions dictate. Culverts will be installed prior to commencement of drilling operations. The borrow ditches along the proposed access road will be re-seeded if the well is completed as a producer. The reseeding of the borrow ditches will reduce the area utilized by this location.

E) Surfacing material to consist of native material from borrow ditches. Road will be gravel surfaced. Gravel will be hauled by truck from a licensed facility.

F) No major road cuts are necessary.

G) Fence cuts, gates and/or cattle guards will be installed as necessary.

H) Upgrade and maintain access roads as necessary to prevent solid erosion and accommodate year-round traffic.

I) All equipment and vehicles will be confined to the access road, pad, and areas specified in the APD.

J) The proposed access road will be constructed in accordance with roading guidelines established for oil and gas exploration and development activities as referenced in the joint BLM/USFS publications: Surface Operating Standards for Oil & Gas Exploration and Development. Third Edition and/or BLM Manual Section 9113 concerning road construction activities on projects under federal jurisdiction. The qualified construction

supervisor shall be an engineer, company superintendent or other representative who is competent and knowledgeable in oilfield road and drillsite construction, and able to speak for the operator. The dirt contractor, or drilling/completion foremen whose primary expertise is not in construction, do not qualify as construction supervisors.

K) Construction activity shall not be conducted using frozen or saturated solid material or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur.

L) Vegetative debris is not permitted in or under fill embankments.

3) LOCATION OF EXISTING WELLS

Within a 1-mile radius:

Proposed:	None
Drilling/injection:	None
Shut-In:	None
Producing:	7

LOCATION OF EXISTING PRODUCING FACILITIES OPERATED BY *Anadarko Petroleum Corporation*

Within one mile: None

4) NEW PRODUCTION FACILITIES PROPOSED

A) BLM will be contacted prior to construction of production facilities. A Sundry Notice (SN) will be filed if requested by BLM.

B) Meter houses are skid mounted. A pump house may be installed if needed. Flow lines will be buried alongside or under the access road. Electric power will be buried wires and poles, also installed alongside the access road. Both will be within the corridor as surveyed by the archaeologist. Any changes from this plan will be submitted to the BLM Field Office by Sundry Notices. New flow lines will connect with existing flow lines, produced fluid will be piped to the existing tank battery.

B) Dimension of Proposed Facility is 350' (north edge) x 193' (east edge) x 248' (south edge) x 210' (west edge) or less (approximately 56,500 ft^2) for drilling operations. Total disturbance will be approximately 1.3 acres.

C) Site preparation for production will be done with standard excavation equipment using native materials. Additional surface material will be obtained from commercial sources or the approved borrow area. Production facilities (including dikes), if used, must be placed on the cut portion of the location and a minimum of 15 feet from the toe of the back cut.

D) Production equipment will be painted light reflective colors to limit evaporation and waste of liquid hydrocarbons, per BLM specifications.

All permanent above-the-ground structures, tank batteries, etc. if used, that will remain longer than six (6) months will be painted Olive Black, or as specified by BLM. The exception being that Utah Occupation Health and Safety Act Rules and Regulations are to be complied with where special safety colors are required.

E) Production facilities are planned on location, and may vary according to actual reservoir discovered and will be engineered upon completion of well tests. Production facilities will be clustered and placed away from cut slopes and fill slopes to allow the maximum recontouring of cut and fill slopes.

If used, a dike will be constructed completely around the production facilities (e.g. production tanks, water tanks, and/or heater-treater). The dikes for the production facilities

must be constructed of compacted subsoil, hold the capacity of the largest tank, and be independent of the back cut. Any production pits will be fenced.
If the well is a producer, all production facilities not listed herein will be authorized by Sundry Notice.

F) No facilities will be constructed off location except as noted in paragraph A) above.

G) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes to the surrounding topography. No depressions will be left that trap water or form ponds. These areas will be re-seeded. Refer to plans for restoration of surface for additional details.

H) Pits which contain oil, if used, will be overhead flagged. None are planned at this time.

I) Proposed utility corridor information:
We understand that none of the proposed access road and utility corridor for this location is on Federal surface and will likely not require a ROW. However, if needed, this Application for Permit to Drill can serve as a request for BLM to initiate a ROW application for access roads and water haul routes, if necessary. This ROW can continue up to the wellhead.

The proposed utility corridor consists of approximately 0.2 total miles (±1,056') of ROW on Fee land.

The following items will be in one trench on one side of the access road:
- A gas transportation pipeline
- A produced water transportation pipeline

On the opposite side of the access road, the power supply (12470 volt power) for the well will be buried.

The gas transportation pipeline would transport recovered gas from this well to an existing interconnect with the existing pipeline infrastructure. The existing pipeline is operated by Anadarko, and the proposed pipeline will be constructed by Anadarko.

The utility corridor alignment will be located adjacent to the proposed access road ROW between this well and the existing portion of access road.

This utility corridor will begin at this well, then traverse southwesterly approximately 1,056' to tie in with the existing utility corridor for the BlackHawk A-3.

Ownership of the ROW to be utilized is as follows:

T13S R10E Sec. 20	Fee (American Electric Power)	±1,056'	±0.2 miles

TOTAL LENGTH - NEW CONSTRUCTION TO BE UTILIZED ON FEE LANDS
ROW – ±0.2 MILES

The utility corridor pipeline ROW will be in the existing transportation ROW with minimal disturbance. Construction equipment will utilize the access road as much as possible. The ROW will consist of a 70' total width. The actual right of way will include a 50' width from the centerline of the road to the outside edge of the access road ROW as surveyed by the archeologist.

The gas gathering pipeline construction specifications are as follows:

Gas transportation pipeline:

Diameter:	5.349" AID (6" nominal)
Wall Thickness:	0.602"
Grade	SDR 11
Design Pressure:	100 psig
Actual Pressure:	60-95 psig
Pressure Test Fluid:	Air
Pipeline Depth:	36"-48"

The water gathering pipeline construction specifications are as follows:

Water gathering pipeline:

Diameter:	4" (nominal)
Wall Thickness:	1.000"
Grade	SDR 9
Design Pressure:	100 psig
Actual Pressure:	60-95 psig
Pressure Test Fluid:	Air
Pipeline Depth:	36"-48"

The allocation and sales meters will be located in the immediate vicinity of the wellhead unless other wise modified by a Sundry Notice.

i) Pipeline shall be constructed as shown on the attached map and plat. Graders shall be used to construct or to clear the pipeline ROW wherever feasible. Angle dozers would be used if terrain dictates. The ROW shall not be cleared more than an additional fifty (50) feet wide (preferably five (5) feet wide on the soil stockpile side, and twenty (20) feet wide on the working side of the trench minimum) without approval. Bladed materials shall be placed back into the cleared route once construction is completed. Pipeline to be welded and dragged with a dozer into place. Alternatively, certain portions of the pipeline may be constructed by laying pipe in the existing road borrow ditch, picking the pipe up with side boom cats, then welding and placing along side of the road. All construction will be with as little surface disturbance as possible.

ii) Pipeline construction shall not block nor change the natural course of any drainage. Trenches will be dug with 1-4 backhoes; the number is subject to availability at the time of construction. A trencher would be used only if the backhoes are not available. Suspended pipelines, which are not currently anticipated but if needed, shall provide adequate clearance for maximum runoff.

iii) Pipeline trenches shall be compacted at road crossings during backfilling. Pipeline trenches shall be maintained in order to correct settlement and erosion. Road crossings will be trenched to a depth of five (5) feet prior to placing the pipeline in the trench. Following the placement of the pipeline into the trench all open road cuts will backfilled and compacted in order to maintain the integrity of the existing road.

iv) The pipeline will be tested with air prior to filling the trench.

v) Minimal water will be needed as this well will be air-drilled. When water is needed, it will be obtained from the city of Price.

Water requirements are anticipated to be minimal or less than approximately 10,814 bbls (454,188 gallons or 1.40 acre-feet).

vi) All above ground permanent structures including production equipment (valving and piping, etc.) will be painted a non-contrasting color to blend harmoniously with the surrounding landscape, as specified by BLM.

vii) Topsoil, as available, will be removed prior to pipeline construction from along the working side of the pipeline ROW and stockpiled for future reclamation. Topsoil depth of 6" to be removed as stipulated by BLM.

viii) Pipeline markers will be installed where appropriate.

ix) Pipeline construction is anticipated to be approximately three (3) to six (6) weeks.

x) Anticipated equipment area as follows:
BlackHawk A-3, SE/4 NE/4 Sec. 20 T13N R11E. This is an existing well.

xi) Anticipated full time personnel are as follows:
1 – Supervisor
1 – Pipeline supervisor
3 – Trenching crew (welders with helpers)
3 – Trucks
3 – Dozer, Track hoe, Blade
Part-time technical support persons will be on-site from time to time as necessary.

xii) Waterbars are to be constructed at least one (1) foot deep, on the contour with approximately two (2) feet of drop per 100 feet of waterbar to ensure drainage, and extended into established vegetation.
All waterbars are to be constructed with the berm on the downhill side to prevent the soft material from silting in the trench. The initial waterbar should be constructed at the top of the backslope. Subsequent waterbars should follow the following general spacing guidelines:

% SLOPE	SPACING INTERVAL (feet)
2 or <	200
2 - 4	100
4 - 5	75
5 or	50

5) LOCATION OF WATER SUPPLY

A) Minimal water will be needed as this well will be air-drilled. When water is needed, it will be obtained from the city of Price.

B) Anticipated water use is as follows:
Air drilling will be used, so the mud drilling water requirements will be minimal, if any.

6) SOURCE OF CONSTRUCITON MATERIALS

A) Construction materials will consist of native materials from borrow ditches and location areas.

B) Surfacing materials will be obtained form available permitted sources, if needed, and consist of pit gravel. Gravel will be hauled by truck from a licensed facility.

7) WASTE DISPOSAL

A) Drill cuttings will be buried in reserve pit when dry.

B) Drilling fluid will be evaporated and then buried in the reserve pit when dry.

C) Reserve pit layout is illustrated on Sheets 3 and 4.

* D) Reserve pit will be lined with a synthetic liner 12 mil or thicker. The reserve pit liner shall be made of any manmade synthetic material of sufficient size and qualities to sustain a hydraulic conductivity no greater than 1 x 10^{-7} cm/sec after installation and which is sufficiently reinforced to withstand normal wear and tear associated with the installation and pit use thereof. The liner shall be chemically compatible with all substances that may be put into the pit.

E) Reserve pit will be fenced on three sides during drilling operations, and on fourth side at time of rig release. Pit will remain fenced until backfilled.

* F) If used, a flare pit for air drilling will be located minimum 100' from wellbore.

G) Produced fluid will be contained in test tanks during completion and testing.

* H) Sewage disposal facilities will be in accordance with State and Local Regulations. Sewage may not be buried on location or put in a borehole. Utah Department of Environmental Quality (UDEQ) Regulations prevent this unless a UDEQ Permit is obtained.

* I) Garbage and other waste - burnable waste will be contained in a portable trash cage which will be totally enclosed with small mesh wire. Cage and contents will be transported to and trash dumped at a WDEQ approved Sanitary Landfill upon completion of operations.

J) Trash will be picked up if scattered and contained in trash cage as soon as practical after rig is moved off.

K) Upon release of the drilling rig, rathole and mousehole will be filled. Debris and equipment not required for production will be removed.

8) ANCILLARY FACILITIES

No ancillary facilities will be necessary.

9) WELLSITE LAYOUT(See Sheets 3 and 4)

Note: Bureau of Land Management will be contacted prior to reserve pit construction and provided an opportunity to inspect the pit prior to filling with water.

A) See attached drill site plat and cut/fill diagram.

B) Roads and well production equipment, such as tanks, treaters, separators, vents, electrical boxes, and equipment associated with pipeline operation, will be placed on location so as to permit maximum interim reclamation of disturbed areas. If equipment is found to interfere with the proper interim reclamation of disturbed areas, the equipment may be moved so proper recontouring and revegetation can occur.

C) If there is snow on the ground when construction begins, the operator will remove it before the soil is disturbed, and pile it downhill from the topsoil stockpile location.

D) Both backslope and foreslope will be constructed no steeper than 1½:1.

E) Erosion control measures will be applied pursuant to Anadarko's General Permit to Discharge Stormwater under the Utah Pollutant Discharge Elimination System and accompanying Stormwater Pollution Prevention Plan.

10) SURFACE PREPARATION

(General)

A) Salvaging and spreading topsoil will not be performed when the ground or topsoil is frozen or too wet to adequately support construction equipment. If such equipment creates ruts in excess of four (4) inches deep, the soil will be deemed too wet.

B) Earthwork for interim and final reclamation must be completed within six (6) months of well completion or plugging (weather permitting).

C) In areas that will not be drill-seeded, the seed mix will be applied and fertilized per BLM's Conditions of Approval (COAs).

D) No seeding will occur from May 15 to September 15. Fall seeding is preferred and will be conducted after September 15 and prior to ground freezing. Spring seeding will be conducted after the frost leaves the ground and no later that May 15.

E) Annual or noxious weeds shall be controlled on all disturbed areas as directed by the Field Office Manager. An intensive weed monitoring and control program will be implemented beginning the first growing season after interim and final reclamation. Noxious weeds that have been identified during monitoring will be promptly treated and controlled. A Pesticide Use Proposal (PUP) will be submitted to the BLM for approval prior to the use of herbicides. All reclamation equipment will be cleaned prior to use to reduce the potential for introduction of noxious weeds or other undesirable non-native species. The operator will coordinate all weed and insect control measures with state and/or local management agencies.

F) Reclaimed areas will be monitored annually. Actions will be taken to ensure that reclamation standards are met as quickly as reasonably practical.

G) Reclamation monitoring will be documented in an annual reclamation report submitted to the AO by December 31. The report will document compliance with all aspects of the reclamation objectives and standards, identify whether the reclamation objectives and standards are likely to be achieved in the near future without additional actions, and identify actions that have been or will be taken to meet the objectives and standards. The report will also include acreage figures for: Initial Disturbed Acres; Successful Interim Reclaimed Acres; Successful Final Reclaimed Acres. Annual reports will not be submitted for sites approved by the AO in writing as having met interim or final reclamation standards. Any time 30% or more of a reclaimed area is redisturbed, monitoring will be reinitiated.

H) The AO will be informed when reclamation has been completed, is successful, and the site is ready for final inspection.

INTERIM RESTORATION (Production)

A) Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area, back sloping and contouring all cut and fill slopes. These areas will be re-seeded.

B) Wellpad size will be reduced to minimum size necessary to conduct safe operations. Cuts and fills will be reduced to 3:1 or shallower.

C) Reserve pits will be closed and backfilled as soon as the pit contents are dry enough to do so, or no later than the end of the next full summer following rig release, whichever comes first, to allow sufficient time for the pit contents to dry. Reserve pits remaining open after this period will require written authorization of the Authorized Office (AO). Immediately upon well completion, any hydrocarbons or trash in the reserve and flare pits will be removed. Pits will be allowed to dry, be pumped dry, or solidified in-situ prior to backfilling.

D) Following completion activities, pit liners will be buried to prevent their reemergence to the surface and interference with long-term successful revegetation. If it was necessary to line the pit with a synthetic liner, the pit will not be trenched (cut) or filled (squeezed) while containing fluids. When dry, the pit will be backfilled with a minimum of five (5) feet of

soil material. In relatively flat areas, the pit area will be slightly mounded to allow for settling and to promote surface drainage away from the backfilled pit.

E) The portions of the cleared well site not needed for operational and safety purposes will be recontoured to the original contour if feasible, or if not feasible, to an interim contour that blends with the surrounding topography as much as possible. Sufficient level area will remain for setup of a workover rig and to park equipment. In some cases, rig anchors may need to be pulled and reset after recontouring to allow for maximum interim reclamation.

* F) Topsoil will be evenly respread and aggressively revegetated over the disturbed area not needed for all-weather operations back to the rig anchors, including road cuts and fills and to within a few feet of the production facilities, unless an all-weather, surfaced, access route or small "teardrop" turnaround is needed on the well pad.

G) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut and fill slopes.

H) To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, debris, and rock over recontoured cut and fill slopes.

* I) A proposed seed mixture for this location in Salt desert shrub habitat is:

Indian ricegrass (Nezpar)	*Achnatherum hymenoides*	2.0
Squirreltail	*Elymus elymoides*	2.0
Galleta	*Hilaria jamesii*	2.0
Russian wildrye	*Psathyrostachys juncea*	2.0
Gooseberryleaf globemallow	*Sphaeralcea grossulariifolia*	0.5
Palmer penstemon (Cedar)	*Penstemon palmeri*	0.5
Winterfat	*Krascheninnikovia lanata*	1.0
Fourwing saltbush	*Atriplex canescens*	1.0
Forage kochia	*Kochia prostrata*	0.5
		11.5

J) Reclamation will be considered successful if the following criteria are met, or as specified by BLM:

· 70 percent of predisturbance cover
· 90 percent dominate species *
· Erosion features equal to or less than surrounding area

* The vegetation will consist of species included in the seed mix and/or occurring in the surrounding natural vegetation.

FINAL RESTORATION (P & A – Removal of equipment)

A) Flowlines on location will be removed before site reclamation and all flowlines between the wellsite and production facilities will remain in place and will be filled with water.

B) If necessary to ensure timely revegetation, the pad will be fenced to BLM standards to exclude livestock grazing for the first two growing seasons or until seeded species become firmly established, whichever comes later. Fencing will meet standards found on page 18 of the Gold Book, 4th Edition, or will be fenced with operational electric fencing.

C) Revegetation will be accomplished by planting mixed grasses as specified below. Revegetation is recommended for road area as well as around production site.

* D) A proposed seed mixture for this location in Salt desert shrub habitat is:

Indian ricegrass (Nezpar)	*Achnatherum hymenoides*	2.0
Squirreltail	*Elymus elymoides*	2.0
Galleta	*Hilaria jamesii*	2.0
Russian wildrye	*Psathyrostachys juncea*	2.0
Gooseberryleaf globemallow	*Sphaeralcea grossulariifolia*	0.5
Palmer penstemon (Cedar)	*Penstemon palmeri*	0.5
Winterfat	*Krascheninnikovia lanata*	1.0
Fourwing saltbush	*Atriplex canescens*	1.0
Forage kochia	*Kochia prostrata*	0.5
		11.5

E) Initial seedbed preparation will consist of backfilling, leveling, and ripping all compacted areas. Final seedbed preparation will consist of contour cultivating to a depth of 4 to 6 inches within 24 hours prior to seeding. Seeding will be conducted no more than 24 hours following completion of final seedbed preparation. A certified weed-free seed mix designed by BLM (shown below) to meet reclamation standards will be used. The seed mix will be used on all disturbed surfaces including pipelines and road cut & fill slopes.

* F) Distribute topsoil, if any remains, evenly over the location, and seed according to the above seed mixture. If needed the access road and location shall be ripped or disked prior to seeding. Perennial vegetation must be established. Additional work shall be required in case of seeding failures, etc.

G) All disturbed areas, including roads, pipelines, pads, production facilities, and interim reclaimed areas will be recontoured to the contour existing prior to initial construction or a contour that blends indistinguishably with the surrounding landscape. Resalvaged topsoil will be spread evenly over the entire disturbed site to ensure successful revegetation. To help mitigate the contrast of recontoured slopes, reclamation will include measures to feather cleared lines of vegetation and to save and redistribute cleared trees, woody debris, and large rocks over recontoured cut and fill slopes.

H) BLM will not release the operator's bond until the area has been successfully reclaimed (evaluation will be made after the first growing season) to the standards of the surface owner or surface management agency.

I) An above-round tubular metal dry-hole marker will be erected over the drill-hole upon cessation of drilling and/or testing operations. The marker will be inscribed with the operator's name, well number, well location, and federal lease number. Upon request of the surface owner, the casing may be cut off three (3) feet below reclaimed ground surface (or below plow depth) with a metal plate affixed to the top providing the same

well information as stated above. This must consist of a piece of pipe not less than four inches in diameter and ten fee in length, of which four feet shall be above the general ground level and the remainder being imbedded in cement. The tope of the pipe must be closed by a welded or screw cap, cement or other means.

J) The Area Manager, Bureau of Land Management, Price Field Office, will be contacted if there are any questions concerning the above rehabilitation stipulations (435) 636-3600 is the BLM contact for this location. All rehabilitation work, including seeding, will be completed by a certified contractor if the well is a dry hole.

11) SURFACE OWNERSHIP

Surface Owner

Drillsite/Access

Nelson L. Kidder, P.E., Director
Reclamation & Coal Development American Electric Power Service Corp.
Fuel, Emissions & Logistics
155 W. Nationwide Blvd.
Columbus, OH 43215
Office: 614-583-6080

12) GENERAL INFORMATION

A) The project area is situated within the Colorado Plateau physiograhic province, in the lowlands that encircle the northern edge of the San Rafael Swell. The Price River drainage (Castle Valley) is located to the west and south of the project area; the Coal Creek drainage is located to the east of the project area, and confluences with the Price River south of the project area near the town of Wellington.

B) Topographic and geologic features – poorly bedded mixture of silt, sand, pebbles, cobbles, and boulders derived from adjacent uplands formed by the Book Cliffs.

C) Soil characteristics – clay

D) Flora consists of: Native grasses, Juniper.

E) Fauna – none observed. Typically present: deer, elk, antelope, coyotes, rabbits, birds, and rodents.

F) Concurrent surface use – grazing and hunting.

G) Mineral Lessor - Bureau of Land Management — S/2NW/4; N/2SW/4; SW/4SW/4
Price Field Office
125 South 600 West
Price, UT 84501 — Phone: 435-636-3600

Union Pacific Railroad Company — S/2NE/4 South of Railroad; NW/4SE/4; SW/4SE/4
c/o McLendon Management Company, LLC
Attn: Rob E. McLendon
2420 Springs Drive, Suite 210
Normal, OK 73069; and
c/o Farmers National Company
Attn: Terry Young
403 S. Cheyenne, Suite 800
Tulsa, OK 74103-3671

H) Proximity of water, occupied dwellings or other features: ±500' northwest an intermittent drainage.

I) Archaeological, cultural and historical information to be contained in a report sent under separate cover by SWCA Environmental Consultants.

J) Construction activity shall not be conducted using frozen or saturated solid material or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur.

K) The operator shall be responsible for the prevention and suppression of fires on public lands caused by its employees, contractors or sub-contractors. During conditions of extreme fire danger, surface use operations may be limited or suspended in specific areas.

L) Unless otherwise exempted, free and unrestricted public access shall be maintained on the lease and associated ROWs.

M) Facilities approved by the Application for Permit to Drill that are no longer included within the lease, due to a change in the lease or unit boundary, shall be authorized with a ROW.

N) Historic, Cultural, and Paleontological Resources

The operator is responsible for informing all persons in the area who are associated with this project that they will be subject to prosecution for knowingly disturbing historic or archaeological sites, or for collecting artifacts. If historic or archaeological materials are uncovered during construction, the operator is to immediately stop work that might further disturb such materials, and contact the authorized officer (AO). Within five (5) working days the AO will inform the operator as to:

- whether the materials appear eligible for the National Register of Historic Places;
- the mitigation measures the operator will likely have to undertake before the site can be used (assuming in site preservation is not necessary); and,
- a timeframe for the AO to complete an expedited review under 36 CFR 800.11 to confirm, through the State Historic Preservation Officer, that the finds of the AO are correct and that mitigation is appropriate.

If the operator wishes, at any time, to relocate activities to avoid the expense of the mitigation and/or the delays associated with this process, the AO will assume responsibility for whatever recordation and stabilization of the exposed materials may be required. Otherwise, the operator will be responsible fro mitigation costs. The AO will provide technical and procedural guidelines for the conduct of mitigation. Upon verification from the AO that the required mitigation has been completed the operator will then be allowed to resume construction.

"The holder of this authorization shall immediately bring any paleontological resources or fossils discovered as a result of operations under this authorization to the attention of the authorized officer. The holder shall suspend all activities in the vicinity of such discovery until notified to proceed by the authorized officer. The authorized officer will evaluate, or will have evaluated, such discoveries not later than five (5) working days after being notified, and will determine what action shall be taken with respect to such discoveries. The decision as to the appropriate measures to mitigate adverse effects to significant paleontological resources will be made by the authorized officer after consulting with the holder. The holder may be responsible for the cost of any investigations necessary for the evaluation, and for any mitigative measures."

O) Anadarko Petroleum Corporation maintains a file, per 29 CFR 1910.1200(g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances which are used during the course of construction, drilling, completion, and production operations for this project. Hazardous materials (substances) which may be

transported across these lands may include drilling mud and cementing products which are primarily inhalation hazards, fuels (flammable and/or combustible), materials that may be necessary for well completion/stimulation activities such as flammable or combustible substances and acids/gels (corrosives). The opportunity for Superfund Amendments and Reauthorization Act (SARA) listed Extremely Hazardous Substances (EHS) at the site is generally limited to proprietary treating chemicals. All hazardous substances, EHS, and commercial preparations will be handled in an appropriate manner to minimize the potential for leaks or spills to the environment.

LESSEE'S OR OPERATOR'S REPRESENTATIVE(S):

Operator

Corporate Office:

Anadarko Petroleum Corporation
1099 18th Street
Denver, CO 80202
(720) 929-6000

Jim Klechner, Vice President, Operations
Reed Scott, General Manager, Rockies
Ann Puchalski, Senior Geologist
Grant Schluender, Drilling Engineer II
Debby Black, Staff Regulatory Analyst **

Field Office:

60 South 700 East, Unit #1
Price, UT 84501
(435) 637-3044

Jim Hartley, Production Superintendent

** Contact with any questions regarding this application

CERTIFICATION:

I hereby certify that Anadarko Petroleum Corporation and its contractors and sub-contractors are responsible for the operations conducted under this application subject to the terms and conditions of the mineral lease. Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Anadarko Petroleum Corporation under their nationwide bond, BLM Bond No. WYB000291.

I hereby certify that I, or someone under my direct supervision, have inspected the drill site and access route proposed herein; that I am familiar with the conditions which currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

Date: April 14, 2008

Debby J. Black
Staff Regulatory Analyst
Anadarko Petroleum Corporation

Well: Blackhawk A-5H
1,142' FNL 263' FEL (NE/4 NE/4)
Section 20 Township 13 South – Range 10 East SLB&M
Carbon County, Utah
Fee Surface

I certify that ***Anadarko Petroleum Corporation*** has reached an agreement with

Nelson L. Kidder, P.E., Director
Reclamation & Coal Development American Electric Power Service Corp.
Fuel, Emissions & Logistics
155 W. Nationwide Blvd.
Columbus, OH 43215
Office: 614-583-6080

as to the requirements for the protection of surface resources and reclamation of disturbed areas and/or damages in lieu thereof. If an agreement has not been reached, ***Anadarko Petroleum Corporation*** will comply with the provisions of the law or regulations governing the Federal or Indian right of reentry to the surface (43 CFR 3814).

Date: April 14, 2008

Debby J. Black
Staff Regulatory Analyst
Anadarko Petroleum Corporation

CERTIFICATION STATEMENT

WELL NAME: Blackhawk A-5H

Surface Location: FEE
BHL – ML: Federal Minerals UTU071675 (at BHL)
BHL – ML-L1: Fee Minerals (at BHL)
BHL – ML-R2: Federal Minerals UTU071675 (at BHL)

I hereby certify that I, or person under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in the plan are, to the best of my knowledge, true and correct; and that the work associated with operations herein will be performed by HP 298 rig., and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Name and Title: Grant Schluender/ Drilling Engineer

direct. 720-929-6557

Dated this 14th day of April, 2008.

Supreme Source Energy Services Inc.

Target Under Surface Location	
TARGET TOP TVD	4043.00
DIP AZ	228.00
DIP DEG	2.50
BASE TARGET TVD	4053.00
DIP AZ	228.00
DIP DEG	2.50

Survey Report-Curve

OPERATOR: Anadarko Petroleum Corporation START:

WELL: BlackHawk A-5H Sec20 T13S R10E FINISH:

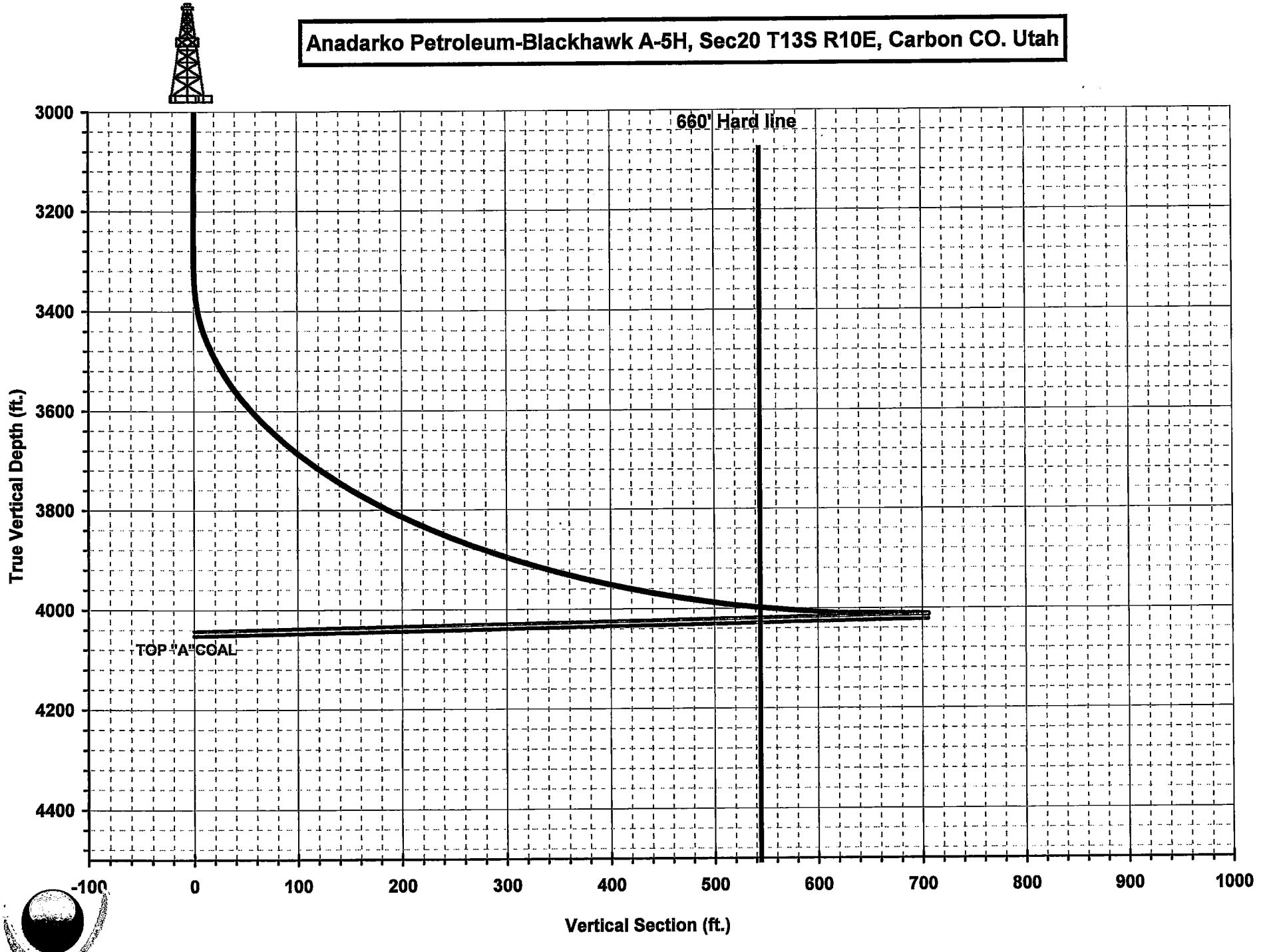
LOCATION: Carbon Cty, Utah

PROPOSED DIRECTION: 228.00

MIN. CURVATURE CALCULATIONS

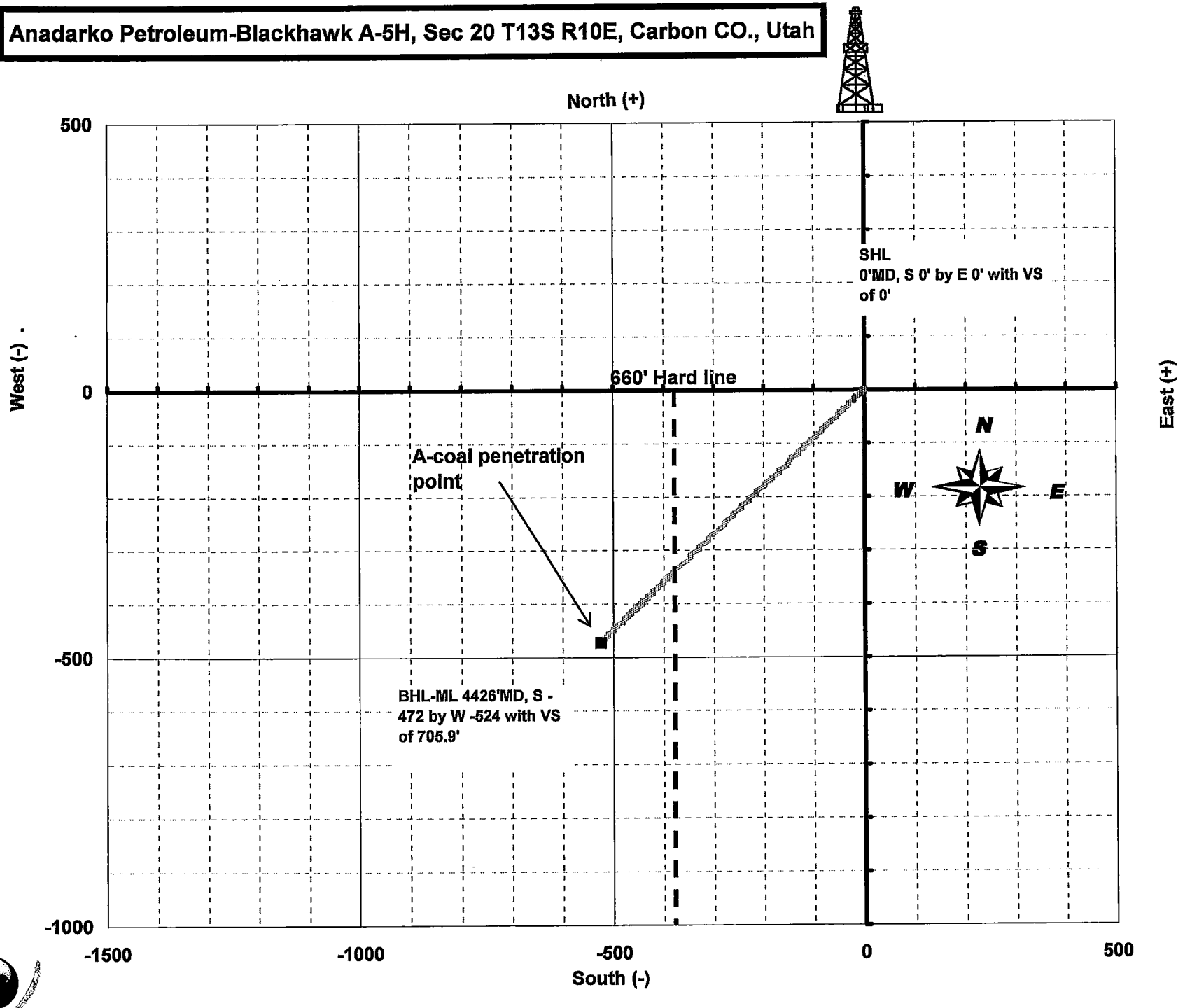
SUR NUM	MD ft	INCL. °	AZM. °	TVD ft	N-S ft	E-W ft	SECT. ft	DLS °/100 ft	TOP TARGET POSITION	TOP TARGET TVD	BASE TARGET POSITION	BASE TARGET TVD
SHL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		4043.00		4053.00
V1	500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	3543.00	4043.00	3553.00	4053.00
V2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	3043.00	4043.00	3053.00	4053.00
V3	1500.00	0.00	0.00	1500.00	0.00	0.00	0.00	0.00	2543.00	4043.00	2553.00	4053.00
V4	2000.00	0.00	0.00	2000.00	0.00	0.00	0.00	0.00	2043.00	4043.00	2053.00	4053.00
V5	2500.00	0.00	0.00	2500.00	0.00	0.00	0.00	0.00	1543.00	4043.00	1553.00	4053.00
V6	3000.00	0.00	0.00	3000.00	0.00	0.00	0.00	0.00	1043.00	4043.00	1053.00	4053.00
KOP	3331.33	0.00	228.00	3331.33	0.00	0.00	0.00	0.00	711.67	4043.00	721.67	4053.00
C1	3431.33	8.40	228.00	3430.98	-4.90	-5.44	7.32	8.40	611.71	4042.68	621.71	4052.68
C2	3531.33	16.80	228.00	3528.48	-19.48	-21.63	29.11	8.40	513.25	4041.73	523.25	4051.73
C3	3631.33	25.20	228.00	3621.75	-43.44	-48.24	64.92	8.40	418.41	4040.17	428.41	4050.17
C4	3731.33	33.60	228.00	3708.80	-76.26	-84.69	113.96	8.40	329.23	4038.03	339.23	4048.03
C5	3831.33	42.00	228.00	3787.74	-117.23	-130.20	175.20	8.40	247.61	4035.35	257.61	4045.35
C6	3931.33	50.40	228.00	3856.89	-165.48	-183.79	247.31	8.40	175.31	4032.21	185.31	4042.21
C7	4031.33	58.80	228.00	3914.77	-219.98	-244.31	328.75	8.40	113.88	4028.65	123.88	4038.65
C8	4131.33	67.20	228.00	3960.13	-279.54	-310.46	417.77	8.40	64.64	4024.77	74.64	4034.77
C9	4231.33	75.60	228.00	3992.00	-342.90	-380.83	512.46	8.40	28.64	4020.64	38.64	4030.64
C10	4331.33	84.00	228.00	4009.69	-408.70	-453.91	610.79	8.40	6.66	4016.35	16.66	4026.35
C11	4343.24	85.00	228.00	4010.83	-416.63	-462.71	622.64	8.40	5.00	4015.83	15.00	4025.83
A-coal Top	4426.57	91.00	228.00	4013.01	-472.34	-524.58	705.90	8.40	-0.81	4012.20	9.19	4022.20

Anadarko Petroleum-Blackhawk A-5H, Sec20 T13S R10E, Carbon CO. Utah



Supreme Source Energy Services Inc.

Anadarko Petroleum-Blackhawk A-5H, Sec 20 T13S R10E, Carbon CO., Utah



Supreme Source Energy Services Inc.

Survey Report-ML

OPERATOR: Anadarko Petroleum Corporation
WELL: BlackHawk A-5H Sec20 T13S R10E
LOCATION: Carbon Cty, Utah

START:
FINISH:

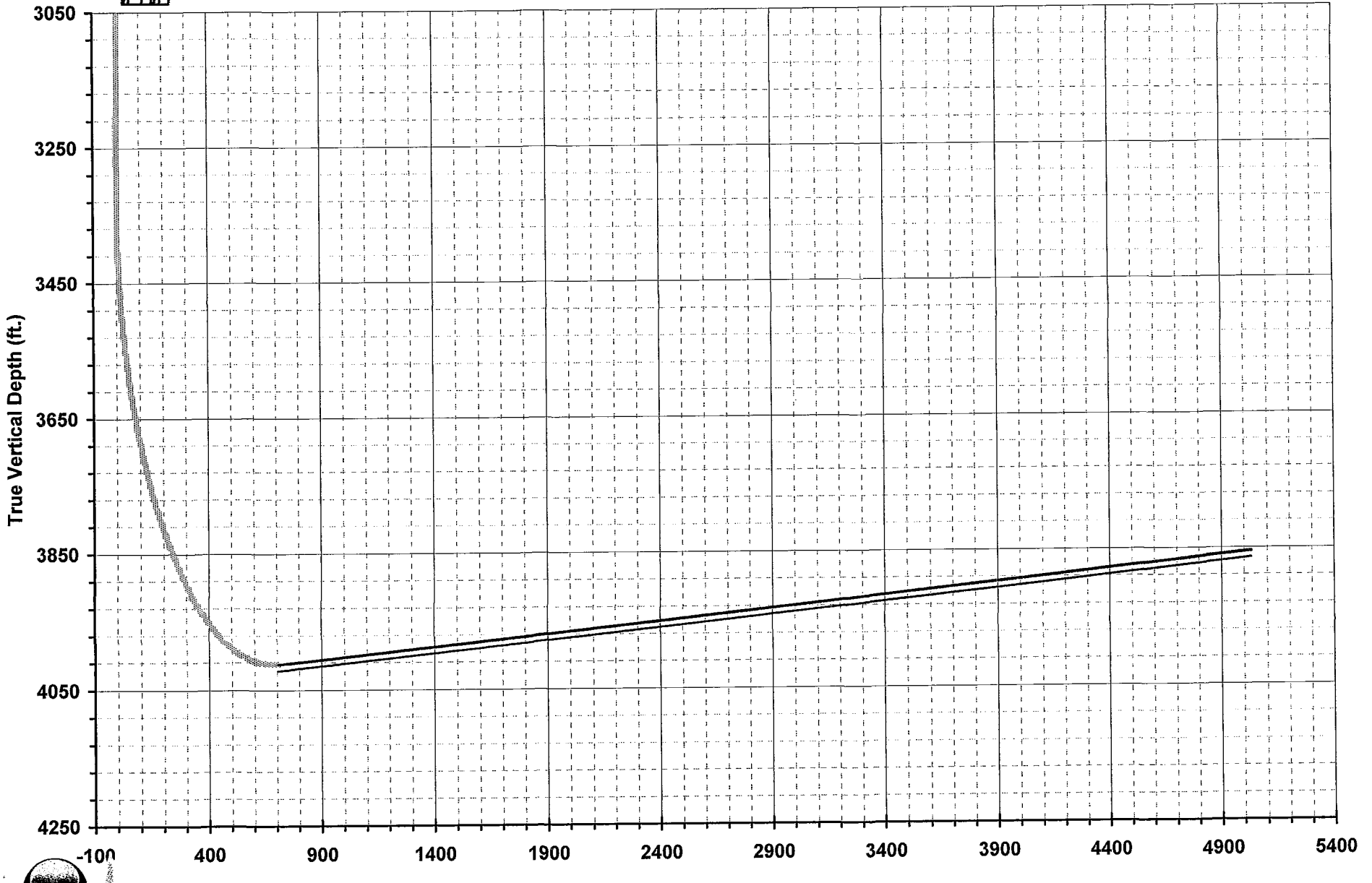
PROPOSED DIRECTION: 228.00

Target Under Surface Location	
TARGET TOP TVD	4043.00
DIP AZ	228.00
DIP DEG	2.09
BASE TARGET TVD	4053.00
DIP AZ	228.00
DIP DEG	2.09

MIN. CURVATURE CALCULATIONS

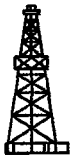
SUR NUM	MD ft	INCL. °	AZM. °	TVD ft	N-S ft	E-W ft	SECT. ft	DLS °/100 ft	TOP TARGET POSITION	TOP TARGET TVD	BASE TARGET POSITION	BASE TARGET TVD
Tie in	4426.57	91.00	228.00	4013.01	-472.34	-524.58	705.90	8.40	-0.81	4012.20	9.19	4022.20
MLRat hole	4476.57	91.00	228.00	4012.14	-505.79	-561.74	755.89	0.00	-1.76	4010.37	8.24	4020.37
MLBuild	4500.00	92.00	228.00	4011.52	-521.46	-579.14	779.31	4.27	-2.01	4009.52	7.99	4019.52
ML-R2	4700.00	92.09	228.00	4004.39	-655.20	-727.67	979.18	0.05	-2.16	4002.22	7.84	4012.22
ML-L1	4800.00	92.09	228.00	4000.74	-722.07	-801.94	1079.12	0.00	-2.16	3998.58	7.84	4008.58
MLRot	5900.00	92.09	228.00	3960.62	-1457.62	-1618.86	2178.38	0.00	-2.16	3958.46	7.84	3968.46
ML-BHL	8756.22	92.09	228.00	3856.46	-3367.54	-3740.03	5032.71	0.00	-2.16	3854.30	7.84	3864.30

Anadarko Petroleum-Blackhawk A-5H-Sec20 T13S R10E, Carbon CO., Utah

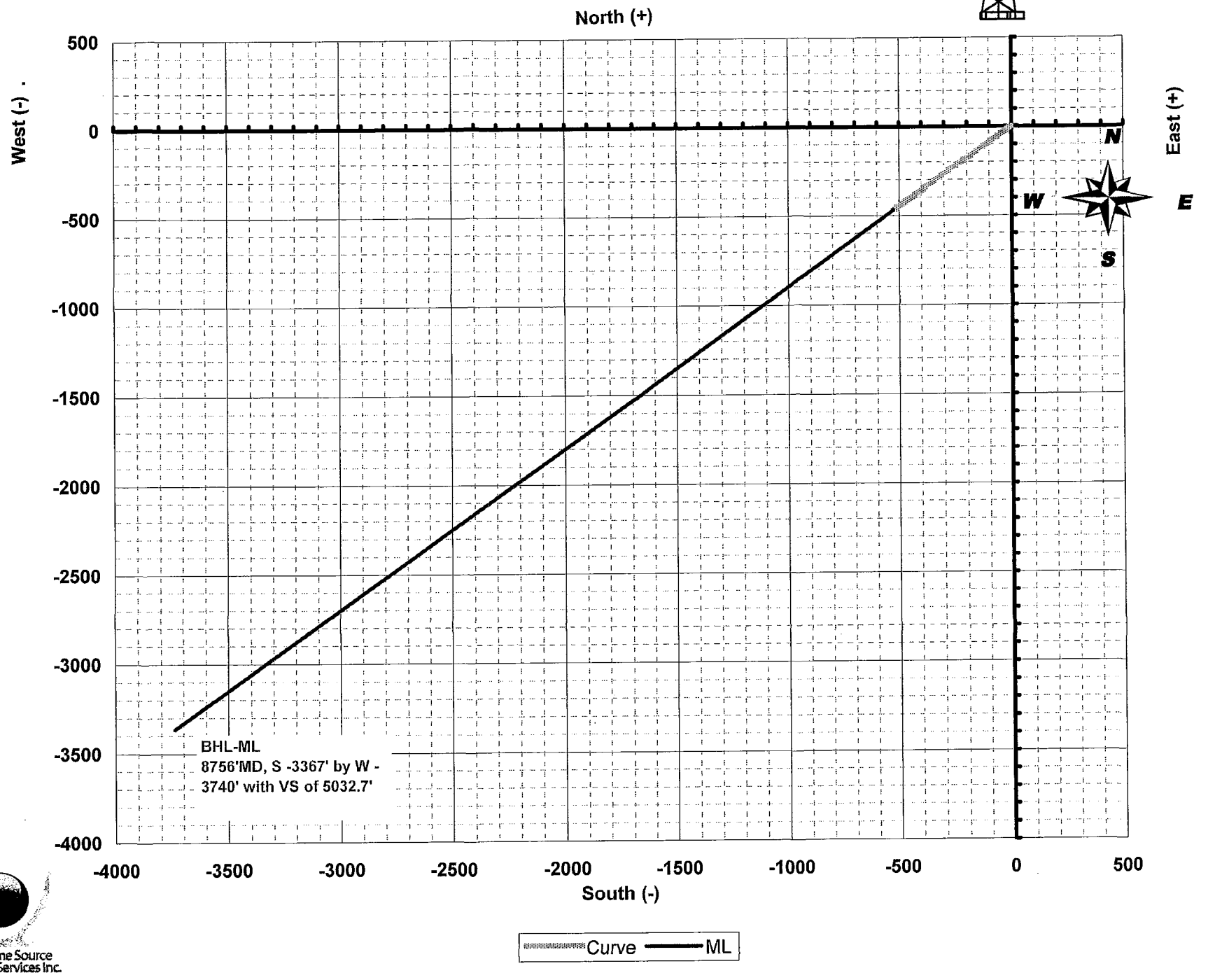


Supreme Source Energy Services Inc.

Anadarko Petroleum-Blackhawk A-5H-Sec20 T13S R10E-Carbon Co., Utah



SHL
0'MD, S 0' by E 0'
with VS of 0'



Supreme Source
Energy Services Inc.

Supreme Source Energy Services Inc.

Survey Report-ML-L1

OPERATOR:	Anadarko Petroleum Corporation	START:	
WELL:	BlackHawk A-5H Sec20 T13S R10E	FINISH:	
LOCATION:	Carbon Cty, Utah		

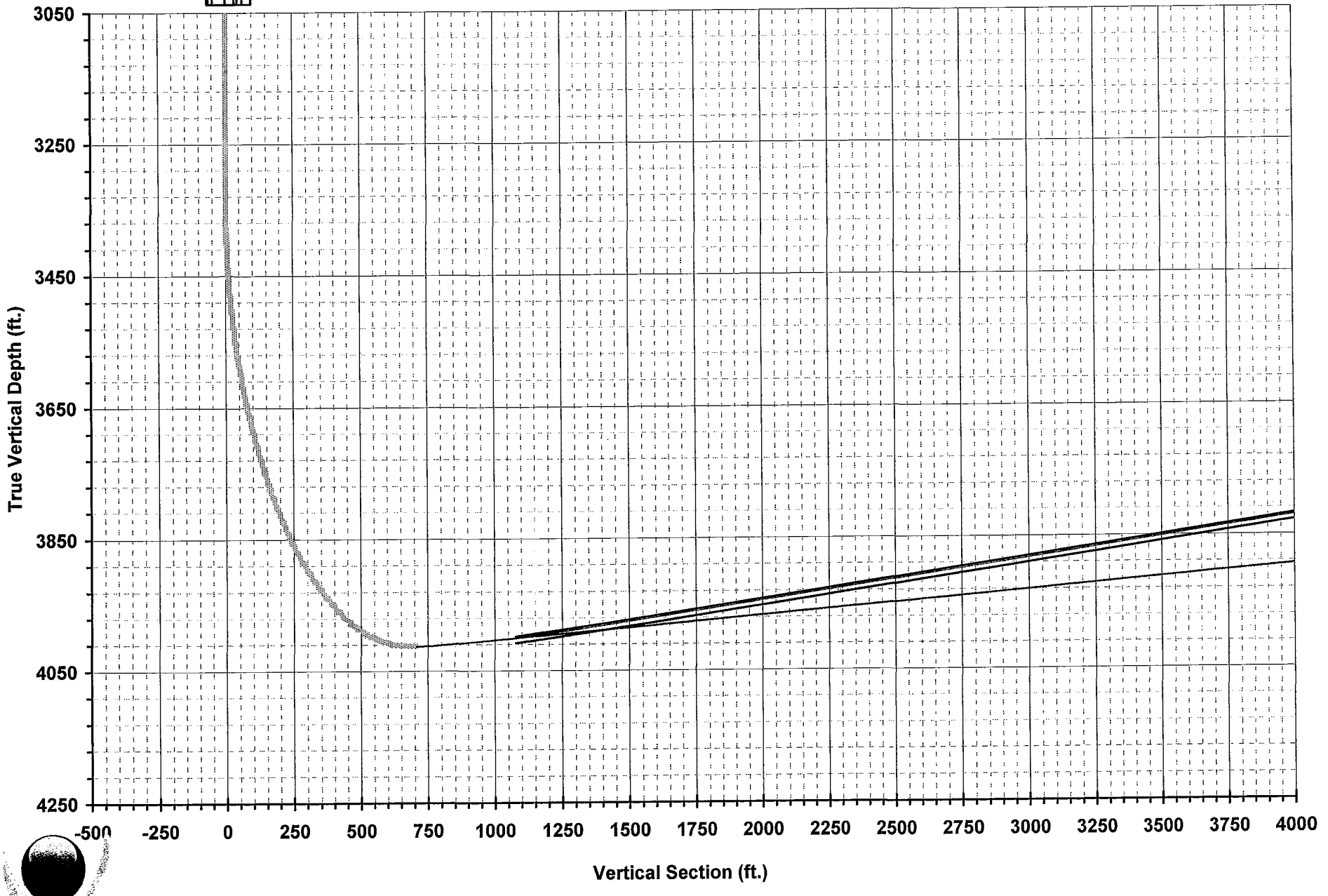
PROPOSED DIRECTION: 208.00

Target Under Surface Location	
TARGET TOP TVD	4043.00
DIP AZ	208.00
DIP DEG	3.55
BASE TARGET TVD	4053.00
DIP AZ	208.00
DIP DEG	3.55

MIN. CURVATURE CALCULATIONS

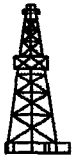
SUR NUM	MD ft	INCL. °	AZM. °	TVD ft	N-S ft	E-W ft	SECT. ft	DLS °/100 ft	TOP TARGET POSITION	TOP TARGET TVD	BASE TARGET POSITION	BASE TARGET TVD
Tie in	4800.00	92.09	228.00	4000.74	-722.07	-801.94	1079.12	0.00	-2.16	3998.58	7.84	4008.58
Turn	4900.00	90.22	217.00	3998.72	-795.67	-869.38	1110.68	11.16	-1.99	3996.73	8.01	4006.73
Turn	5000.00	96.48	206.00	3992.86	-880.60	-921.46	1210.12	12.64	-1.99	3990.87	8.01	4000.87
Turn	5100.00	90.29	199.70	3986.95	-972.50	-960.17	1309.44	8.83	-1.98	3984.97	8.02	3994.97
Rotate	5200.00	96.51	199.70	3981.03	-1066.44	-993.80	1408.17	6.22	-1.98	3979.05	8.02	3989.05
BHL-ML-L1	7844.13	90.52	199.70	3819.09	-3550.00	-1883.04	4018.50	0.23	-1.98	3817.11	8.02	3827.11

Anadrako Petroleum-Blackhawk A-5H-Sec20 T13S R10E-Carbon CO., Utah

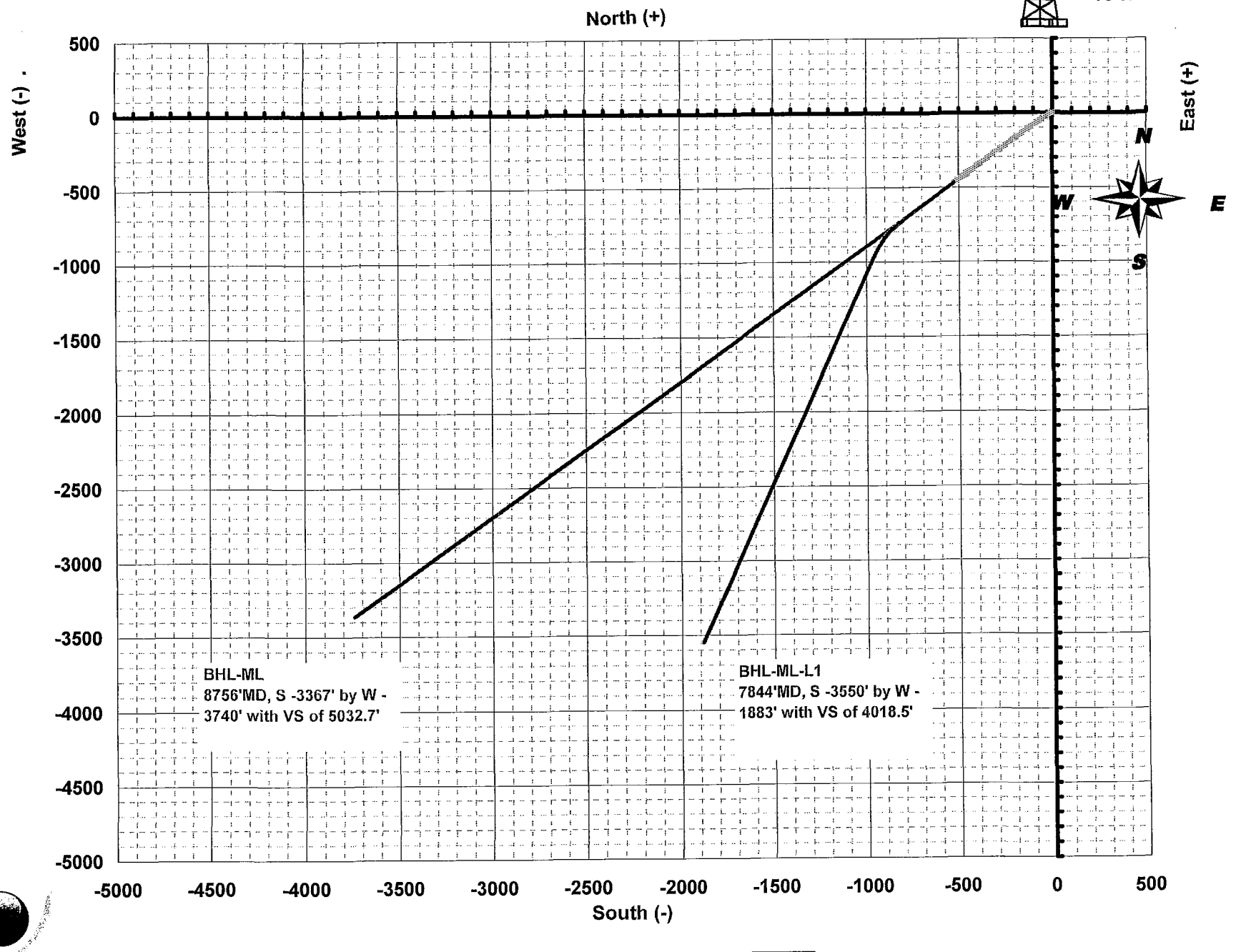


Supreme Source Energy Services Inc.

Anadarko Petroleum-Blackhawk A-5H-Sec20 T13S R10E-Carbon CO., Utah



SHL
0'MD, S 0' by E 0' with
VS of 0'



Supreme Source
Energy Services Inc.

Supreme Source
Energy Services Inc.

Survey Report-ML-R2

OPERATOR:	Anadarko Petroleum Corporation	START:	
WELL:	BlackHawk A-5H Sec20 T13S R10E	FINISH:	
LOCATION:	Carbon Cty, Utah		

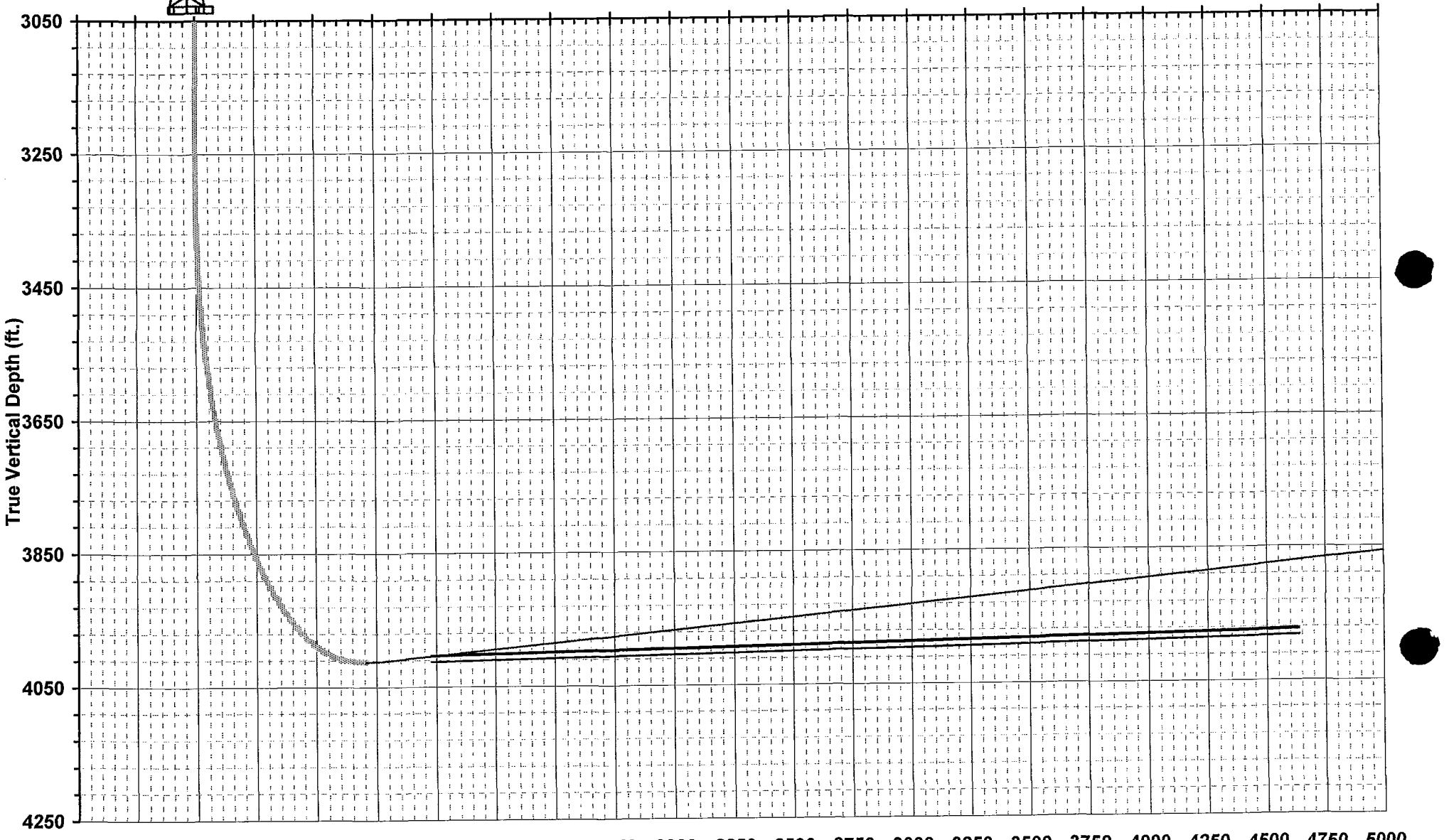
PROPOSED DIRECTION: 245.00

Target Under Surface Location	
TARGET TOP TVD	4043.00
DIP AZ	245.00
DIP DEG	0.48
BASE TARGET TVD	4053.00
DIP AZ	245.00
DIP DEG	0.48

MIN. CURVATURE CALCULATIONS

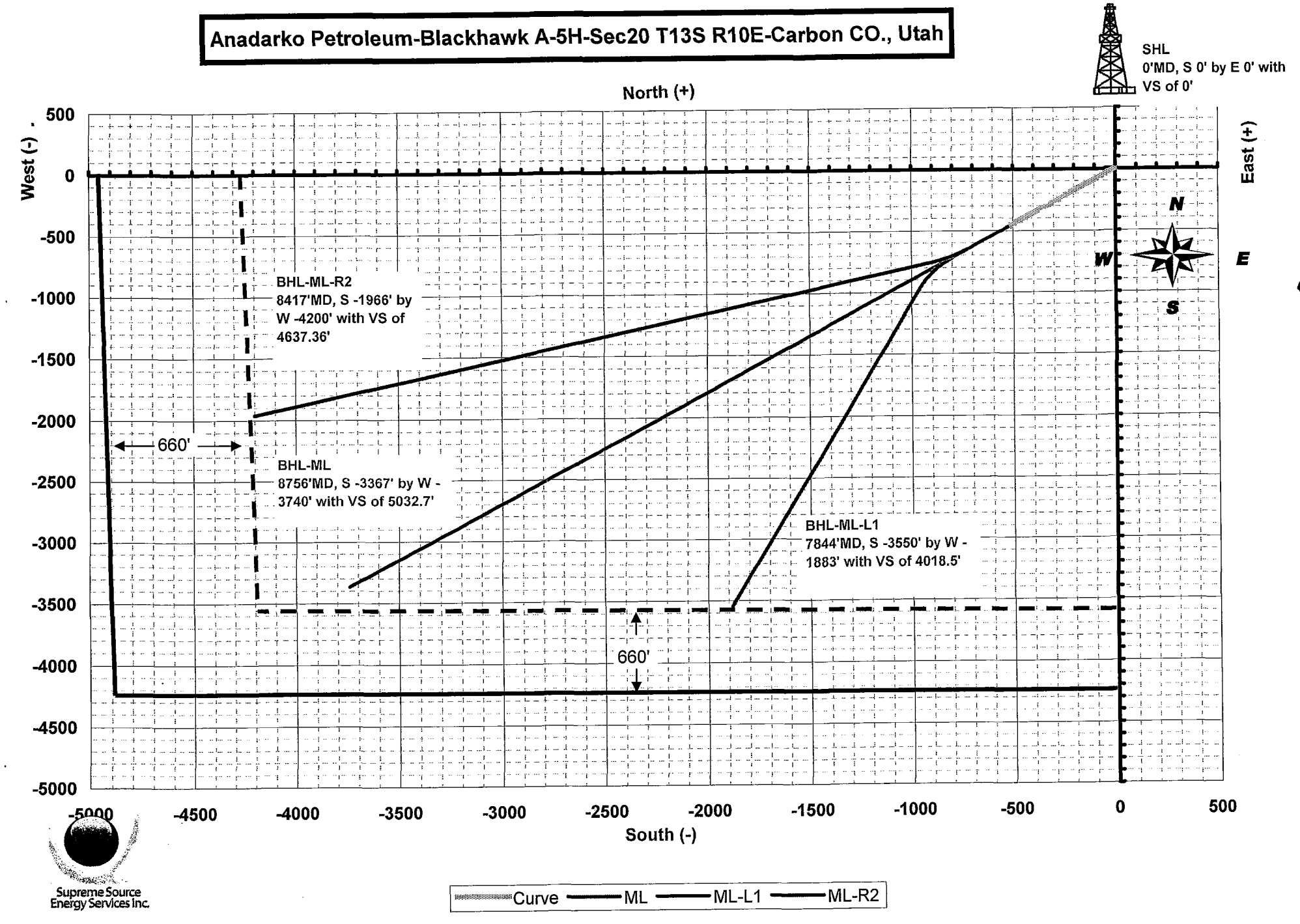
SUR NUM	MD ft	INCL. °	AZM. °	TVD ft	N-S ft	E-W ft	SECT. ft	DLS °/100 ft	TOP TARGET POSITION	TOP TARGET TVD	BASE TARGET POSITION	BASE TARGET TVD
Tie in	4700.0	92.09	228.00	4004.39	-655.20	-727.67	979.18	0.05	-2.16	4002.22	7.84	4012.22
Turn	4800.0	88.43	239.00	4003.93	-714.58	-807.92	1034.22	11.59	-2.15	4001.78	7.85	4011.78
Turn	4900.0	92.49	249.90	4003.12	-757.64	-897.99	1134.04	11.63	-2.15	4000.98	7.85	4010.98
Rotate	5000.0	88.44	249.90	4002.31	-792.00	-991.87	1233.65	4.05	-2.15	4000.16	7.85	4010.16
BHL-ML-R2	8417.0	92.51	249.90	3973.81	-1966.00	-4200.00	4637.36	0.12	-2.15	3971.66	7.85	3981.66

Anadarko Petroleum-Blackhawk A-5H-Sec20 T13S R10E-Carbon CO., Utah



Supreme Source Energy Services Inc.

Anadarko Petroleum-Blackhawk A-5H-Sec20 T13S R10E-Carbon CO., Utah

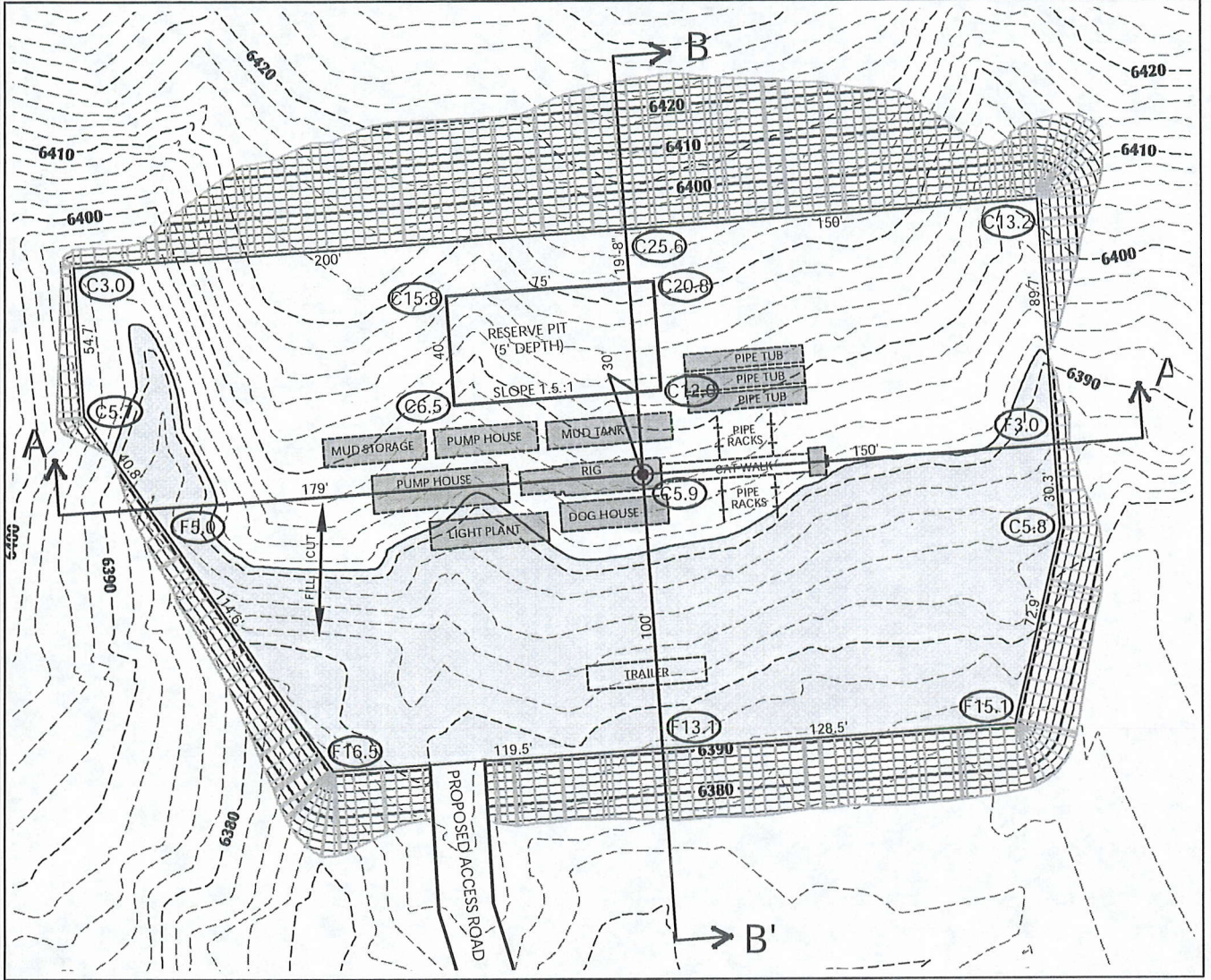


Supreme Source Energy Services Inc.

Anadarko Petroleum Corporation
BLACKHAWK A-5H
SECTION 20, T.13 S., R. 10 E., S.L.M.

PROCEED IN A NORTHERLY DIRECTION FROM PRICE, UTAH ALONG U.S. HIGHWAY 6 APPROXIMATELY 4.1 MILES TO THE JUNCTION OF STATE HIGHWAY 139; EXIT RIGHT AND PROCEED IN AN EASTERLY DIRECTION, GRADUALLY CHANGING DIRECTIONS TO NORTHERLY APPROXIMATELY 1.4 MILES TO THE JUNCTION OF STATE HIGHWAY 157; EXIT RIGHT AND PROCEED IN AN EASTERLY DIRECTION GRADUALLY CHANGING TO A NORTHEASTERLY DIRECTION APPROXIMATELY 2.2 MILES TO THE JUNCTION OF AN EXISTING WELL ACCESS ROAD; EXIT LEFT AND PROCEED IN A NORTHERLY THEN NORTHEASTERLY DIRECTION FOR APPROXIMATELY 0.4 MILES TO THE JUNCTION OF AN EXISTING WELL ACCESS ROAD LEADING TO THE EXISTING BLACKHAWK A-3 WELL; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION FOR APPROXIMATELY 0.3 MILES TO THE ENTRANCE TO THE EXISTING BLACKHAWK A-3 WELL PAD; FOLLOW PROPOSED ACCESS ROAD NORTH, FROM THE JUNCTION TO THE EXISTING BLACKHAWK A-3 WELL PAD, APPROXIMATELY 0.2 MILES TO THE PROPOSED BLACKHAWK A-5H WELL LOCATION.

TOTAL DISTANCE FROM PRICE, UTAH TO THE PROPOSED BLACKHAWK A-5H WELL LOCATION IS APPROXIMATELY 8.6 MILES.



WELL PAD LEGEND

- WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

BLACKHAWK A-5H WELL PAD QUANTITIES

FINISHED GRADE ELEVATION = 6,391.0'
CUT SLOPES = 1.5 : 1
FILL SLOPES = 1.5 : 1

TOTAL CUT FOR WELL PAD = 17,029 C.Y.
TOTAL FILL FOR WELL PAD = 11,595 C.Y.
TOPSOIL @ 6" DEPTH = 1,612 C.Y.
TOTAL DISTURBANCE = 2.00 ACRES
SHRINKAGE FACTOR = 1.15
SWELL FACTOR = 1.00

NOTES:

- UNGRADED GROUND ELEV. @ LOC. STAKE = 6,396.9'
- FINISH GRADE ELEV. @ LOC. STAKE = 6,391.0'
- TOTAL PIT CAPACITY WITH 2' OF FREEBOARD +/- 2,004 BARRELS
- TOTAL PIT VOLUME +/- 417 CY
- EXCESS CUT MATERIAL FROM CONSTRUCTION OF WELL PAD WILL BE UTILIZED TO CONSTRUCT THE PROPOSED WELL ACCESS ROAD.

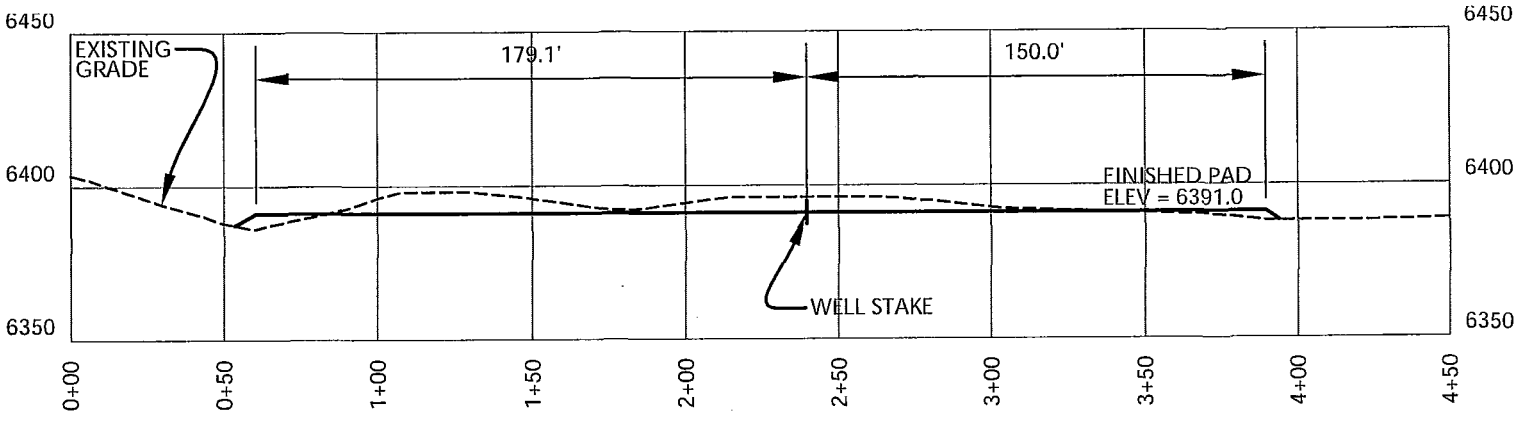
ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

BLACKHAWK A-5H
WELL PAD - LOCATION LAYOUT
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

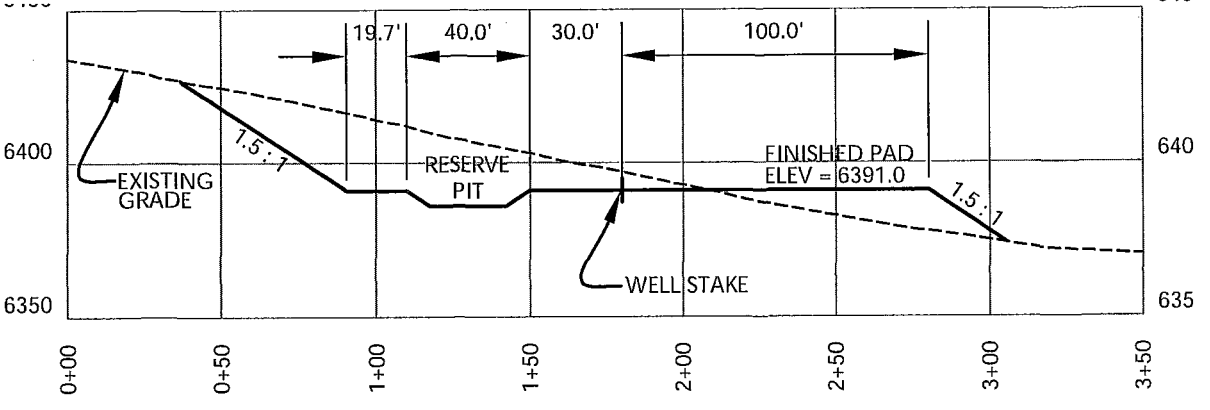
609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=60'	Date: 04/08/08	SHEET NO: 3 3 OF 8
REVISED:	BY DATE	

HORIZONTAL 0 30 60 1" = 60'
2' CONTOURS



SECTION - A-A'



SECTION - B-B'

ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

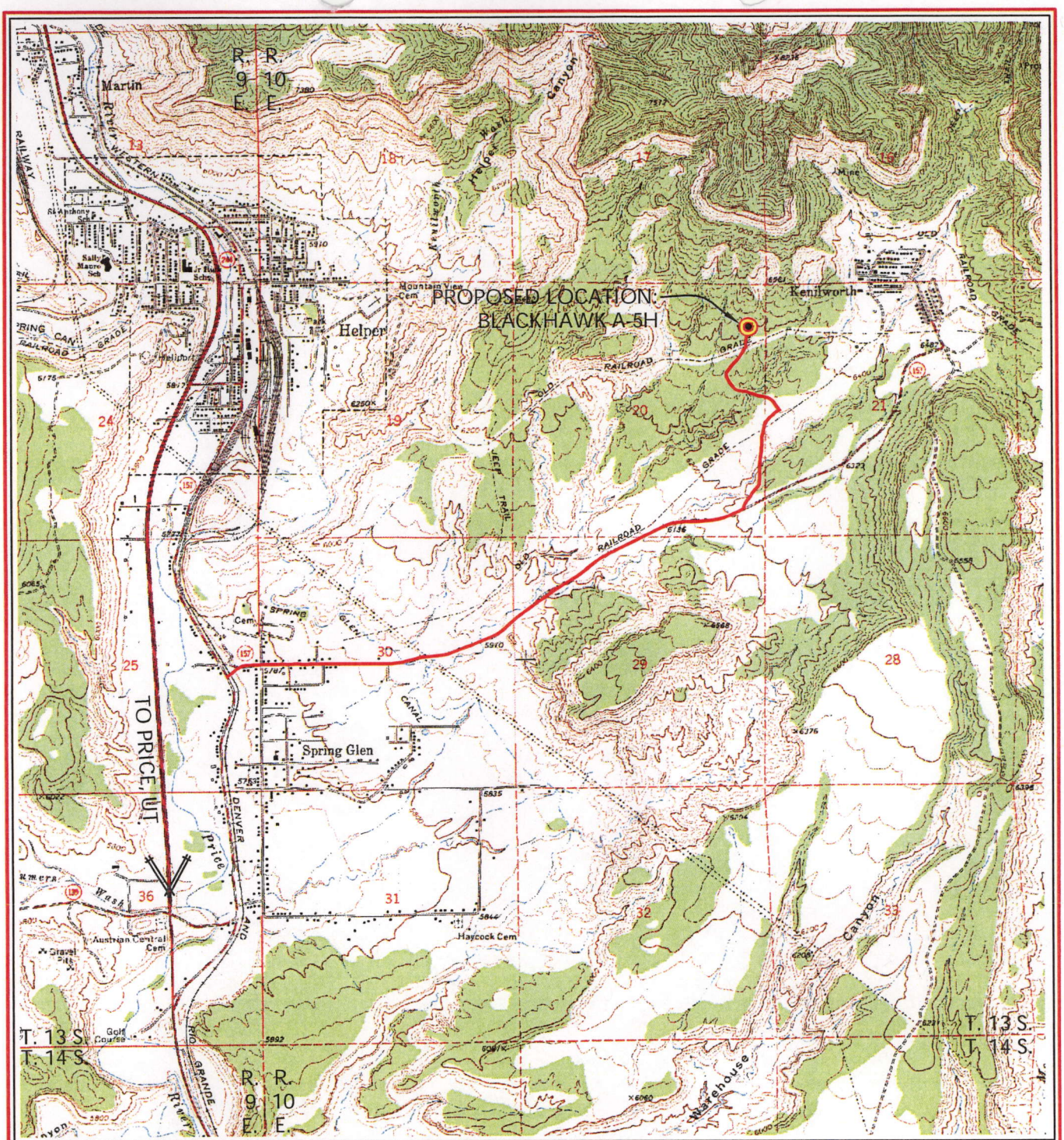
BLACKHAWK A-5H
WELL PAD - CROSS SECTIONS

NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=60'	Date: 04/08/08	SHEET NO: 4 of 8
REVISED:	BY / DATE	

HORIZONTAL 0 30 60 1" = 60'
VERTICAL 0 30 60 1" = 60'
2' CONTOURS



LEGEND:

PROPOSED BLACKHAWK A-5H WELL LOCATION

ACCESS ROUTE

ANADARKO PETROLEUM CORPORATION

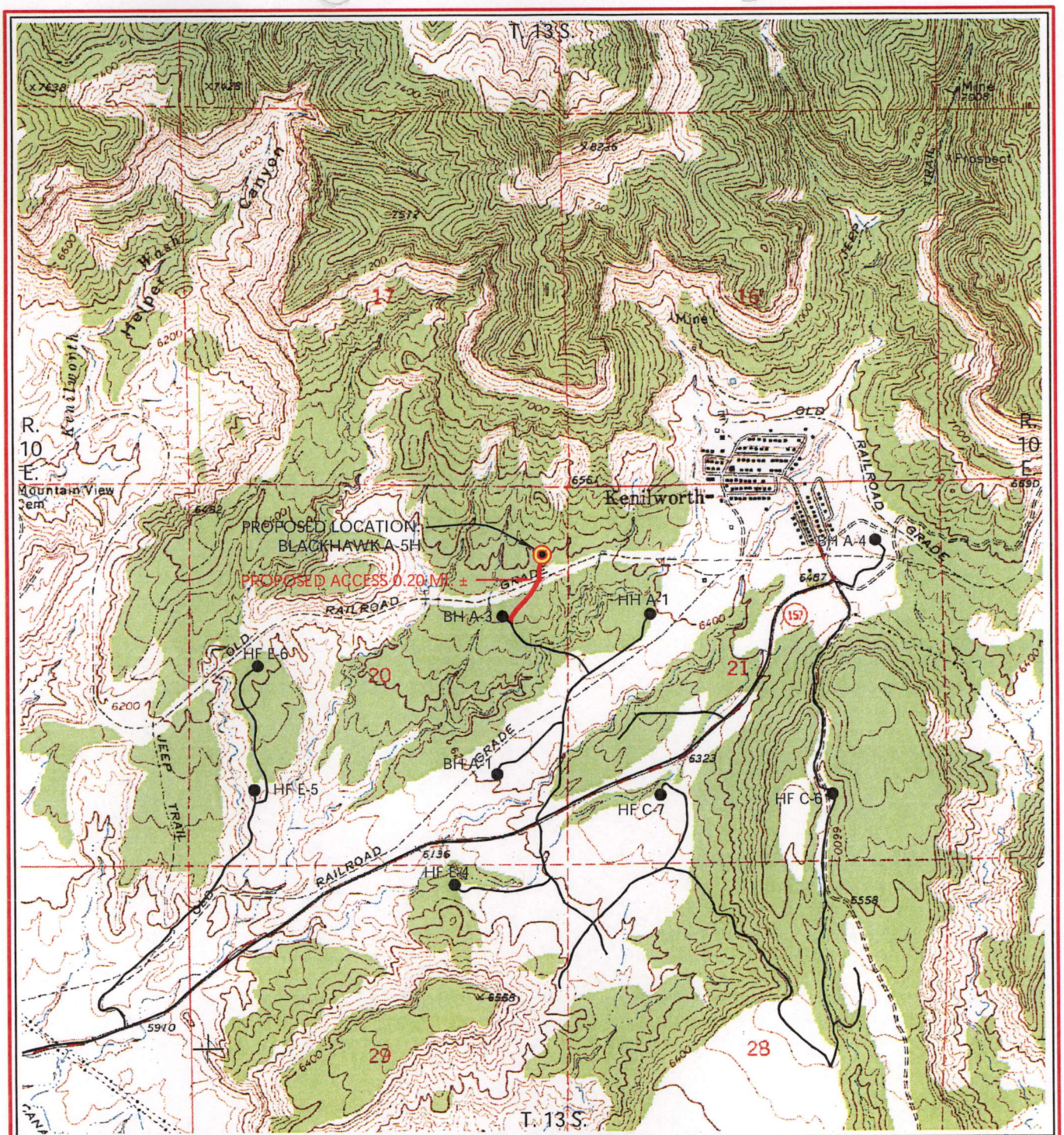
1099 18th Street, Suite 1200 - Denver, Colorado 80202

BLACKHAWK A-5H
LOCATION MAP A
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 1500 3000 1" = 3000'

Scale: 1"=3000'	Date: 04/08/08	SHEET NO: 5
REVISED:	BY DATE	5 OF 8



LEGEND:

- PROPOSED BLACKHAWK A-5H WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING ACCESS ROAD

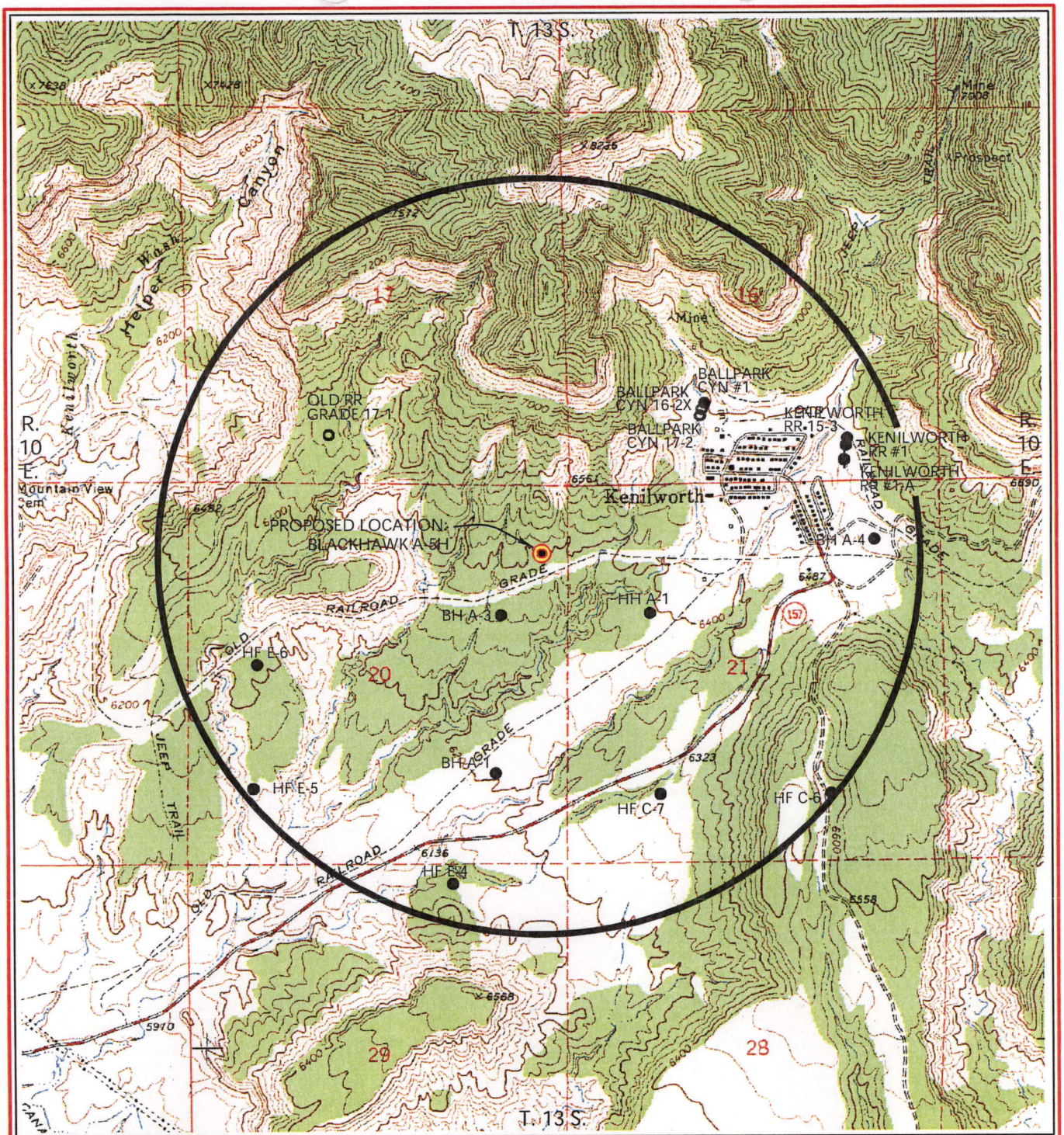
ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

BLACKHAWK A-5H
LOCATION MAP B
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 1000 2000 1" = 2000'

Scale: 1"=2000'	Date: 04/08/08	SHEET NO: 6 6 OF 8
REVISED:	BY DATE	



LEGEND:

- PROPOSED BLACKHAWK A-5H WELL LOCATION
- PRODUCING WELLS
- SHUT-IN WELLS
- APPROVED WELLS

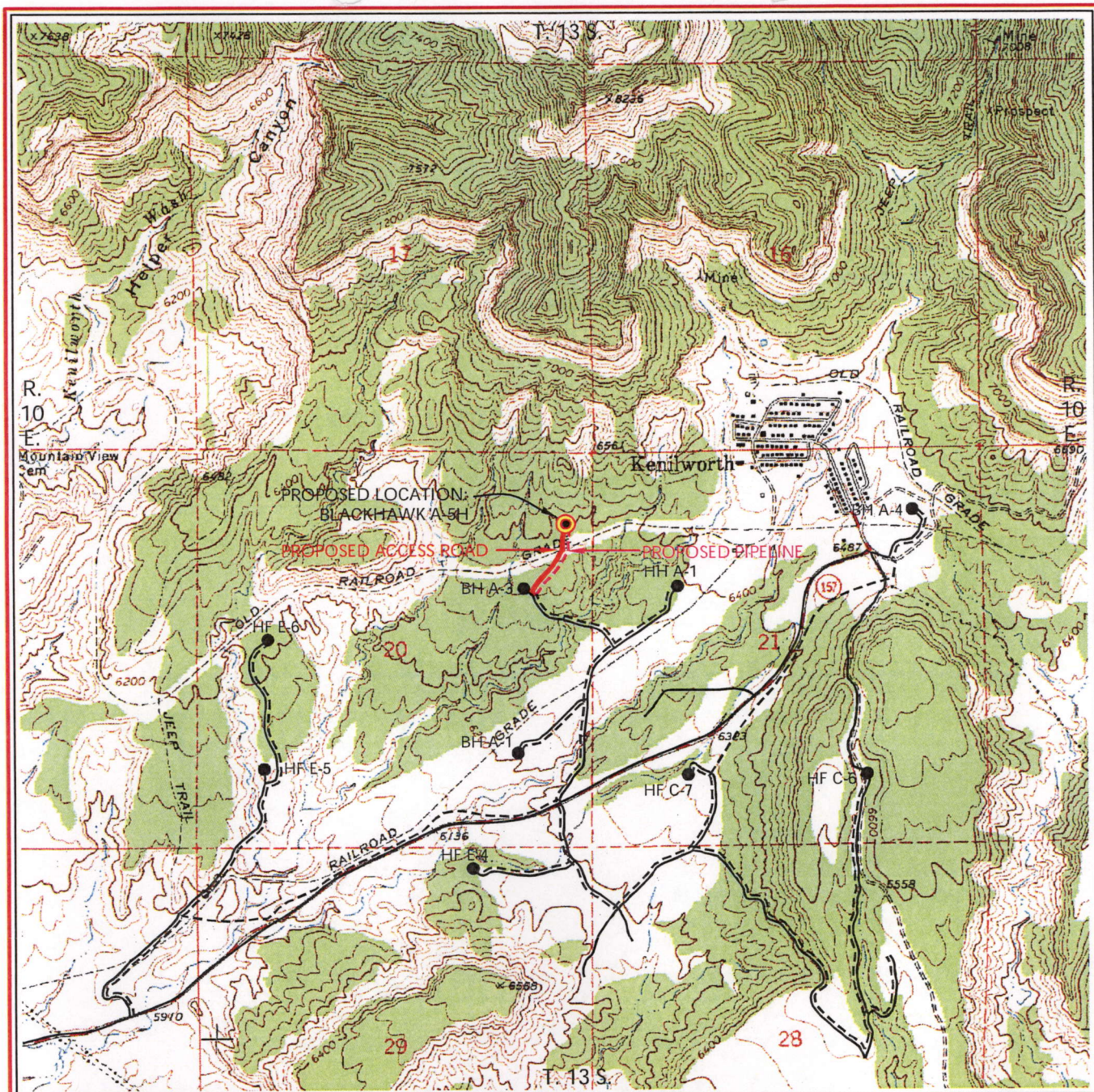
ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

BLACKHAWK A-5H
LOCATION MAP C
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

HORIZONTAL 0 1000 2000 1" = 2000'

Scale: 1"=2000'	Date: 04/08/08	SHEET NO: 7
REVISED:	BY DATE	7 OF 8



APPROXIMATE TOTAL PROPOSED PIPELINE DISTANCE = 1,110'

LEGEND:

- PROPOSED BLACKHAWK A-5H WELL LOCATION
- PROPOSED ACCESS ROAD
- EXISTING ACCESS ROAD
- PROPOSED PIPELINE
- EXISTING PIPELINE

ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

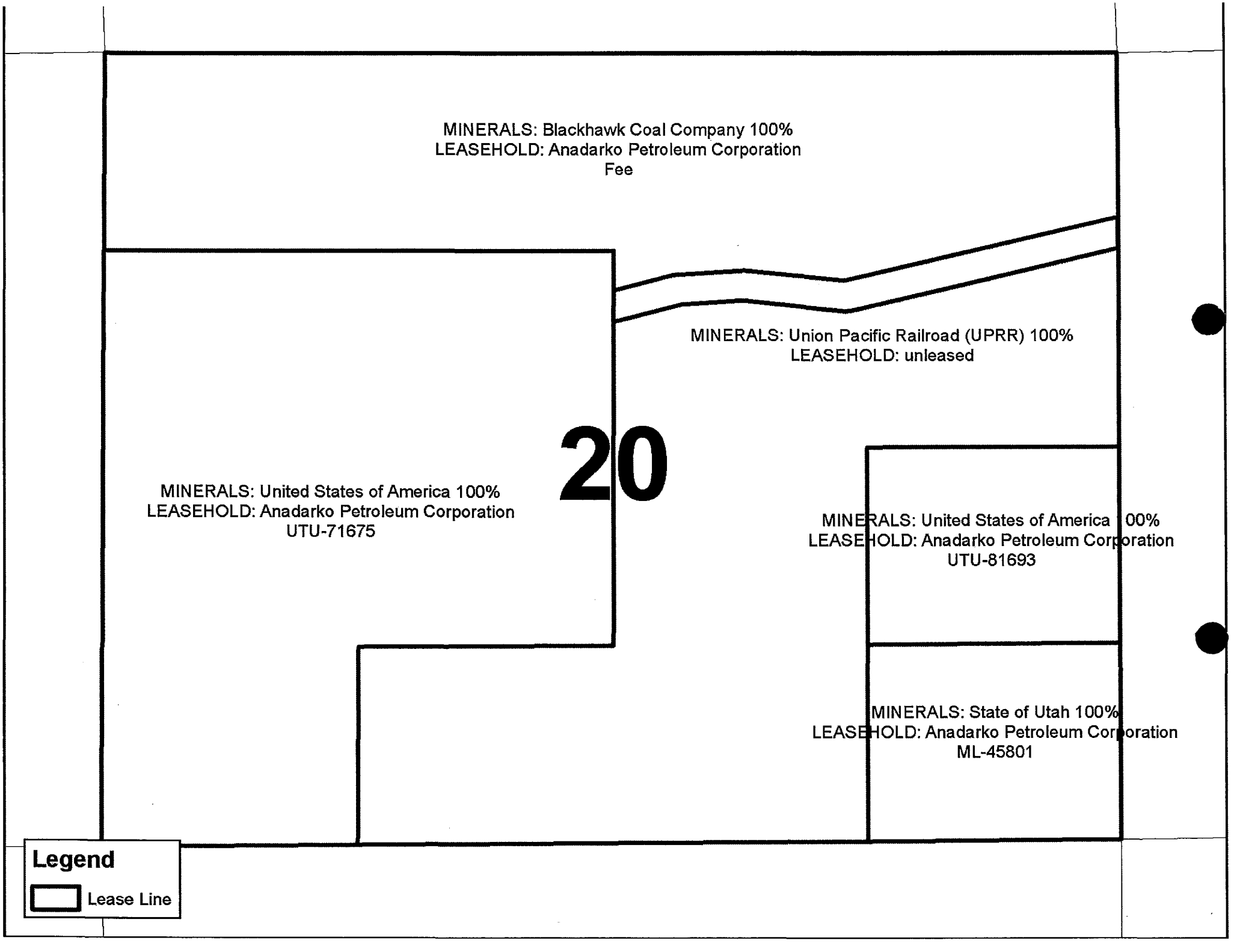
BLACKHAWK A-5H
LOCATION MAP D
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

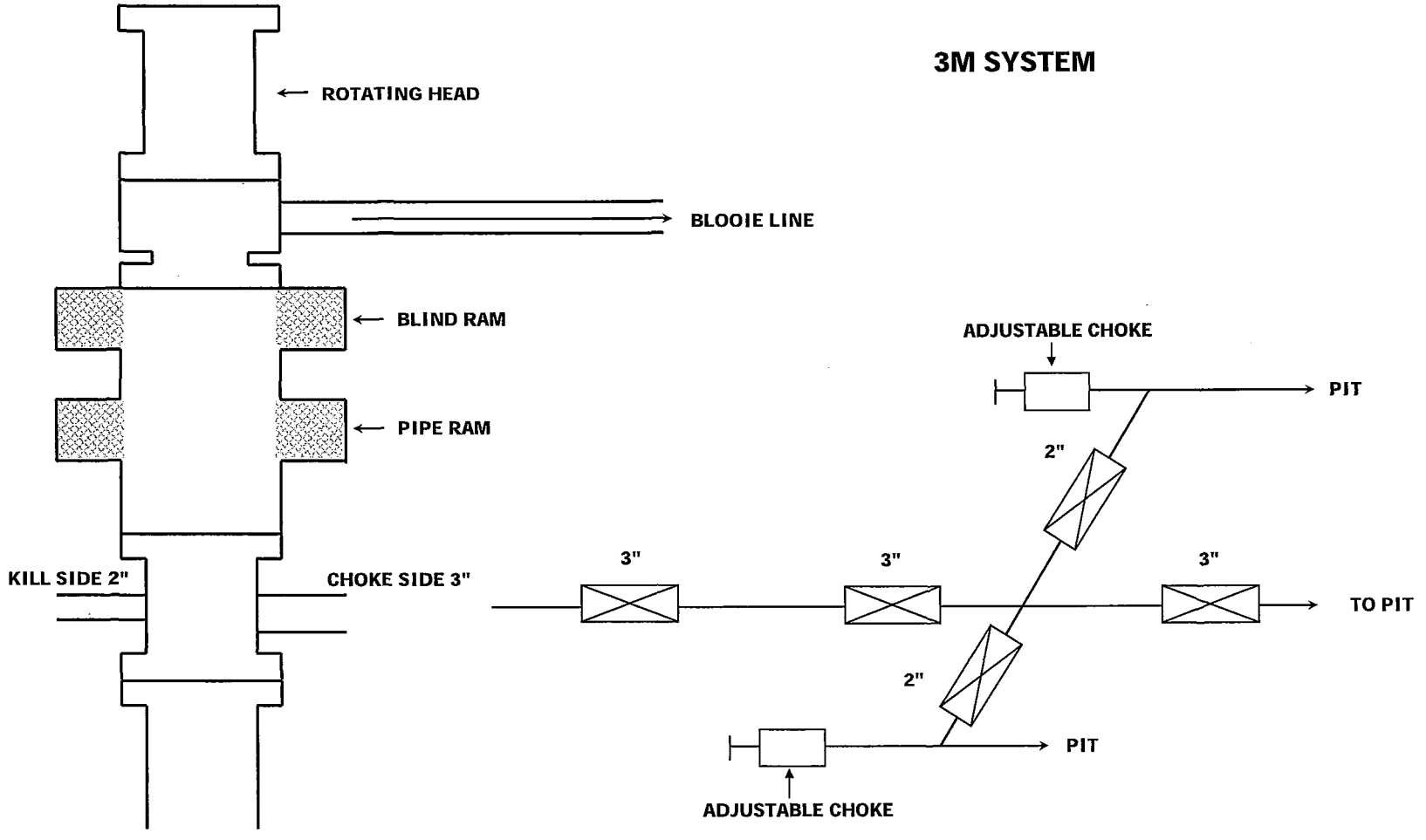
N

HORIZONTAL 0 1000 2000 1" = 2000'

Scale: 1"=2000'	Date: 04/08/08	SHEET NO: 8 8 OF 8
REVISED:	BY DATE	


MINERALS: Blackhawk Coal Company 100%
LEASEHOLD: Anadarko Petroleum Corporation
Fee
MINERALS: Union Pacific Railroad (UPRR) 100%
LEASEHOLD: unleased
20
MINERALS: United States of America 100%
LEASEHOLD: Anadarko Petroleum Corporation
UTU-71675
MINERALS: United States of America 100%
LEASEHOLD: Anadarko Petroleum Corporation
UTU-81693
MINERALS: State of Utah 100%
LEASEHOLD: Anadarko Petroleum Corporation
ML-45801
Legend
Lease Line

3M SYSTEM


ROTATING HEAD
BLOOIE LINE
BLIND RAM
PIPE RAM
KILL SIDE 2"
CHOKE SIDE 3"
ADJUSTABLE CHOKE
PIT
2"
3"
3"
3"
TO PIT
2"
PIT
ADJUSTABLE CHOKE

WORKSHEET

APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 04/17/2008

API NO. ASSIGNED: 43-007-31402

WELL NAME: BLACKHAWK A-5H

OPERATOR: ANADARKO Petro Corp. (N0035)

CONTACT: DEBBY BLACK

PHONE NUMBER: 720-929-6000

PROPOSED LOCATION:

NENE 20 130S 100E

SURFACE: 1142 FNL 0263 FEL

SWSW BOTTOM: 0923 FSL 1216 FWL

COUNTY: CARBON

LATITUDE: 39.68499 LONGITUDE: -110.8163

UTM SURF EASTINGS: 515751 NORTHINGS: 4392602

FIELD NAME: HELPER (18)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DKD	6/30/06
Geology		
Surface		

LEASE TYPE: 4 - Fee

LEASE NUMBER: FEE

SURFACE OWNER: 4 - Fee

PROPOSED FORMATION: FRSD

COALBED METHANE WELL? YES

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. 2447222)

N Potash (Y/N)

N Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. AIR DRILLED)

N RDCC Review (Y/N)
(Date:)

Y Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit:

___ R649-3-2. General

Siting: 460 From Qtr/Qtr & 920' Between Wells

___ R649-3-3. Exception

✓ Drilling Unit

Board Cause No: 241-07

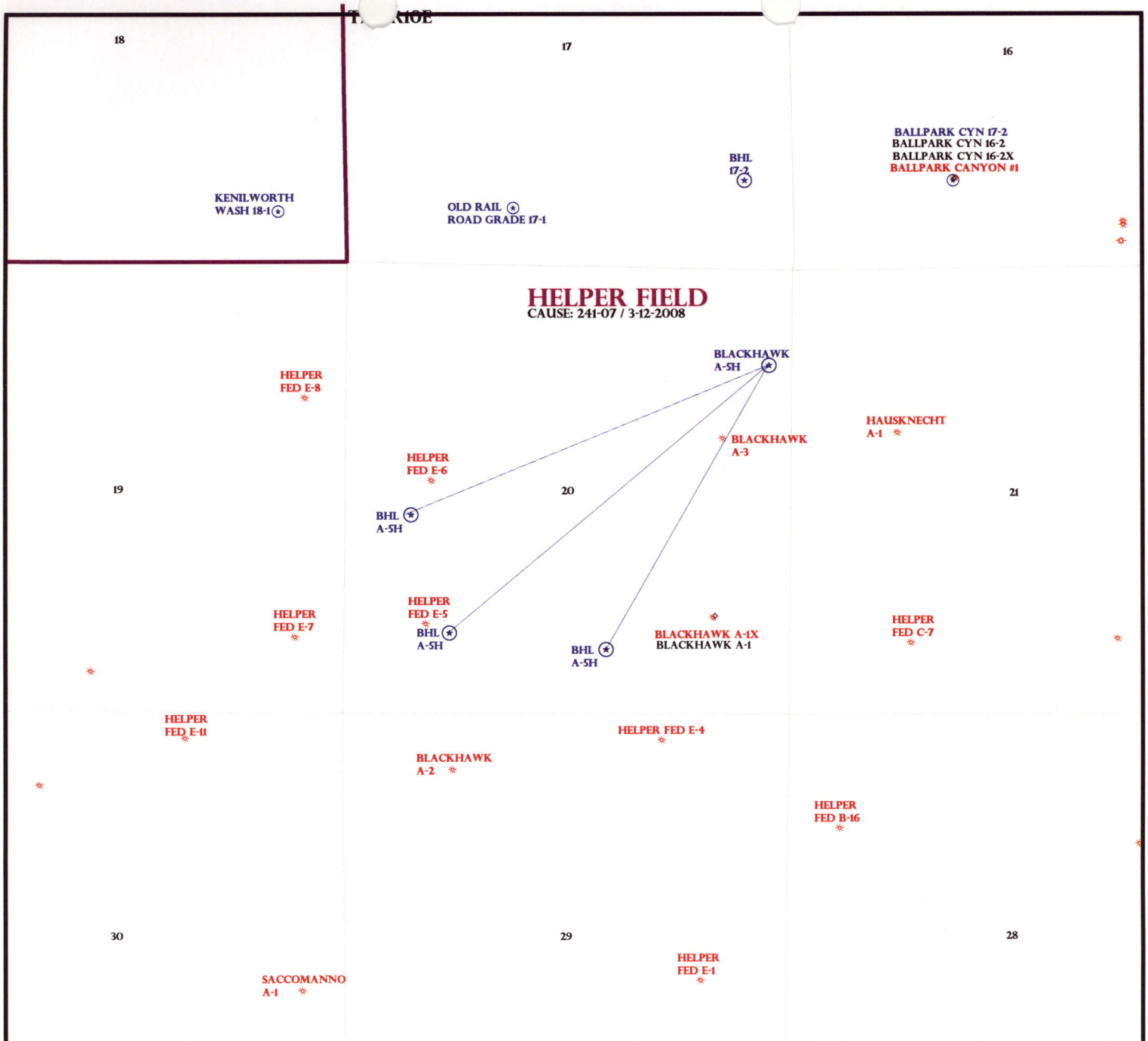
Eff Date: 3-12-2008

Siting: Laterals Need to be at least 660' fr bdrys of Sec. 20

___ R649-3-11. Directional Drill

COMMENTS: Need Presite (05-08-06)

STIPULATIONS: 1- STATEMENT OF BASIS



OPERATOR: ANADARKO PETRO CORP (N0035)

SEC: 20 T.13S R. 10E

FIELD: HELPER (18)

COUNTY: CARBON

CAUSE: 241-07 / 3-12-2008

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

UTAH DNR
OIL, GAS & MINING

N
W E
S

PREPARED BY: DIANA MASON
DATE: 25-APRIL-2008

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
755	43-007-31402-00-00		GW	P	No

Operator ANADARKO PETROLEUM CORP **Surface Owner-APD**
Well Name BLACKHAWK A-5H **Unit**
Field HELPER **Type of Work**
Location NENE 20 13S 10E S 1142 FNL 263 FEL GPS Coord (UTM) 515751E 4392602N

Geologic Statement of Basis

Significant volumes of high quality ground water are unlikely to be encountered at this location. A moderately permeable soil is likely to be developed on the Quaternary / Tertiary Pediment Mantle covering the Upper Part of the Blue Gate Member of the Mancos Shale, but it does not appear to be charged with any significant volume of groundwater. The proposed casing and cementing program should adequately isolate any zones of fresh water that may be penetrated. No water rights have been filed within a mile of the location.

Chris Kierst — 5/20/2008
APD Evaluator — **Date / Time**

Surface Statement of Basis

The Division recommends that the location be built as designed in submitted APD and as staked during the pre-site inspection conducted on May 8, 2008. It was discussed during this pre-site inspection to change the access to the west side of the location, utilizing the natural terrain to reach the location. Drainages and runoff should be diverted around and away from the well-pad and access road, utilizing culverts, ditches, and berms where appropriate. The Division will require a 12 mil. (minimum) synthetic liner in the reserve pit.

Mark Jones — 5/8/2008
Onsite Evaluator — **Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 12 mils shall be properly installed and maintained in the reserve pit.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	Drainages adjacent to the proposed pad shall be diverted around the location.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator ANADARKO PETROLEUM CORP
Well Name BLACKHAWK A-5H
API Number 43-007-31402-0 **APD No** 755 **Field/Unit** HELPER
Location: 1/4,1/4 NENE **Sec** 20 **Tw** 13S **Rng** 10E 1142 FNL 263 FEL
GPS Coord (UTM) 515735 4392660 **Surface Owner**

Participants

M Jones (UDOGM), Tonya Hammond (surface), Nathan Sill and others (BLM), Jim Hartley and Debby Black (Anadarko).

Regional/Local Setting & Topography

East of Spring Glen, west of Kenilworth, Carbon County, Utah. Approximately 8 miles north of Price.

Gradual to steep graded terrain, sloping to the west, cut by ephemeral wash drainages.

Surface Use Plan

Current Surface Use
Wildlfe Habitat
Recreational

New Road Miles	Well Pad		Src Const Material	Surface Formation
0.2	**Width** 180	**Length** 329	Onsite	

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland Y
Ephemeral drainage to east and south of proposed well-pad.

Flora / Fauna
mature PJ community.

Soil Type and Characteristics
Rocky, sandy clay.

Erosion Issues Y
erosive upon disturbance.

Sedimentation Issues N
no live waters in close proximity to location.

Site Stability Issues N

Drainage Diverson Required Y
Divert all drainages arouund location.

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potental Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	10 to 20	5
Affected Populations	30 to 50	8
Presence Nearby Utility Conduits	Not Present	0
	Final Score	38 1 **Sensitivity Level**

Characteristics / Requirements

Dugout earthen pit (40x75x5). Lined with 12 mil minimum synthetic liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 12 **Pit Underlayment Required?** N

Other Observations / Comments

BLM had multiple comments regarding the siting of this well location. It was recommended by DOGM to leave the location as staked. The landowner agreed with this as well as Anadarko. Other issues including; re-vegetation, access, drainage issues,visual impact, lining the reserve pit, and crossing a proposed OHV trail, were discussed. Carbon County noted that the site was already zoned mining and grazing.

Mark Jones — **Evaluator**

5/8/2008 — **Date / Time**

There are no features in the query area.

Click on the back button to try again

Please direct questions and comments regarding the map server to: leeeschler@utah.gov.

back close

	1142 FNL	263 FEL
ML / 228°	-3367.54	-3740.03
	4509.54 FNL	-4003.03 FEL
✓	~892' FSL (923')	1165.51 FEL (1216 FWL)
ML-1 / 208°	-3550.0	-1883.04
	4692.0 FNL	2146.04 FEL
✓	~714.36 (711')	2121' FEL (2087')
ML-2 / 245°	-1966.0	-4200.0 FEL
	3708	4463 FEL
✓	~2304' (2328')	697.54 FEL (745')

✓ O-K.

BOPE REVIEW — Anadarko A-5H:208, 228, 245 API 43-007-31402

INPUT

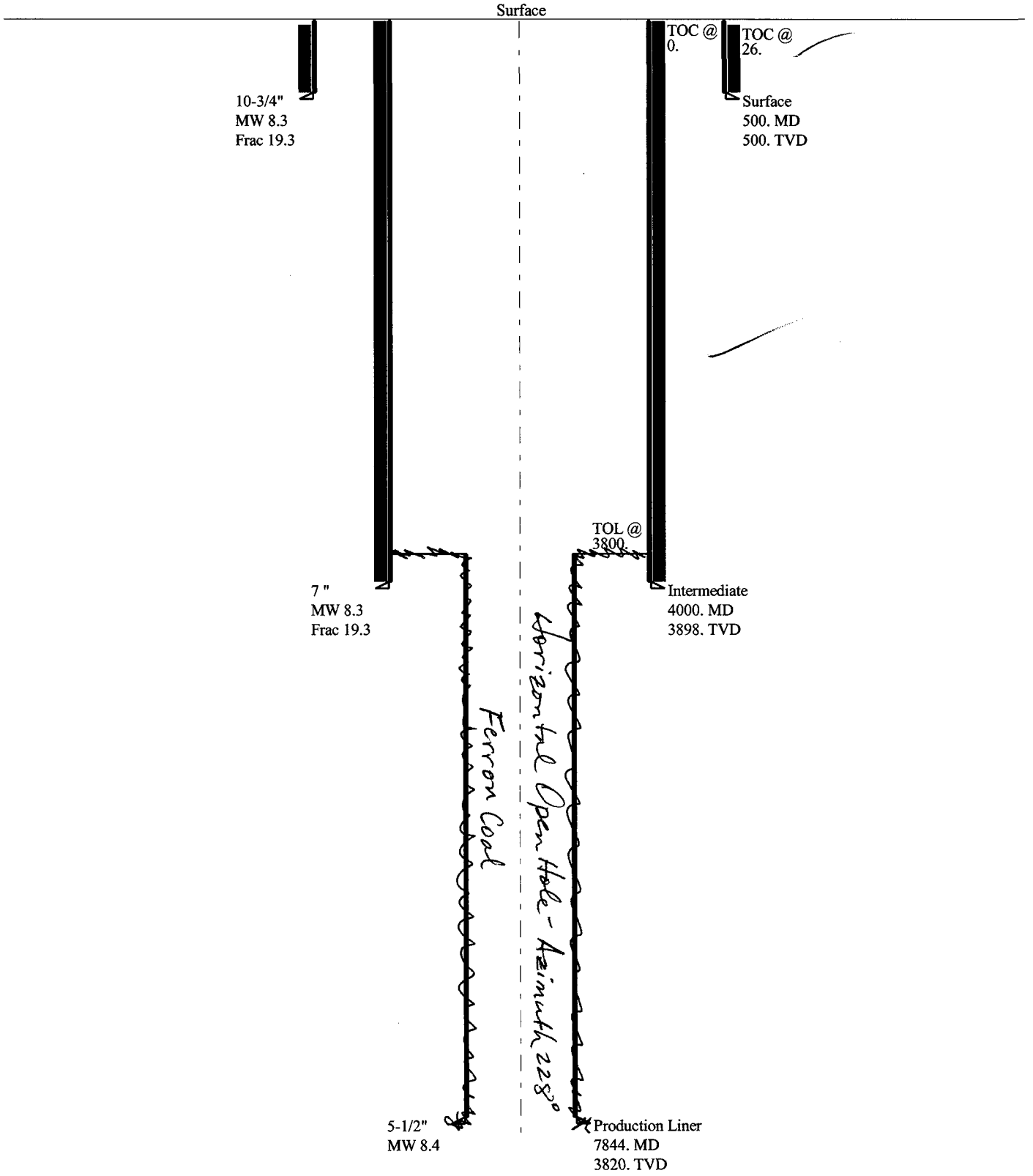
Well Name	Anadarko A-5H:208, 228, 245 API 43-007-31402			
	String 1	String 2		
Casing Size (")	10 3/4	7		
Setting Depth (TVD)	500	4000		
Previous Shoe Setting Depth (TVD)	0	500		
Max Mud Weight (ppg)	8.33	8.4		
BOPE Proposed (psi)	~~1000~~	2000		
Casing Internal Yield (psi)	1820	3740		
Operators Max Anticipated Pressure (psi)	2600	12.5 ppg		

Calculations	String 1	10 3/4 "	
Max BHP [psi]	.052*Setting Depth*MW =	217	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	157	NO ~~YES~~ ok. - reasonable depth Air Drill to surface shoe
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	107	NO ~~YES~~
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	107	← NO No expected pressures
Required Casing/BOPE Test Pressure		500 psi	
***Max Pressure Allowed @ Previous Casing Shoe =**		0 psi	*Assumes 1psi/ft frac gradient

Calculations	String 2	7 "	
Max BHP [psi]	.052*Setting Depth*MW =	1747	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) [psi]	Max BHP-(0.12*Setting Depth) =	1267	YES ✓ Air drill to "core point", then switch to water
MASP (Gas/Mud) [psi]	Max BHP-(0.22*Setting Depth) =	867	YES Horizontal open hole completion to 8756' MD
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth) =	977	← NO - Reasonable
Required Casing/BOPE Test Pressure		2000 psi	
***Max Pressure Allowed @ Previous Casing Shoe =**		500 psi	*Assumes 1psi/ft frac gradient

2008-06 Anadarko Blackhawk A-5H:208

Casing Schematic



Well name:	**2008-06 Anadarko Blackhawk A-5H:208**
Operator:	**Anadarko Petroleum Corporation**
String type:	Surface
Project ID:	43-007-31402
Location:	Carbon County

Design parameters:

Collapse

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 440 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 500 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC:	1.80 (J)
8 Round LTC:	1.80 (J)
Buttress:	1.60 (J)
Premium:	1.50 (J)
Body yield:	1.50 (B)

Tension is based on buoyed weight.

Neutral point: 439 ft

Environment:

H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	82 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	500 ft
Cement top:	26 ft

Non-directional string.

Re subsequent strings:

Next setting depth:	3,898 ft
Next mud weight:	8.400 ppg
Next setting BHP:	1,701 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	500 ft
Injection pressure:	500 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	500	10.75	32.75	H-40	ST&C	500	500	10.067	283.2

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	216	840	3.883	500	1820	3.64	14	205	14.25 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940

Date: June 23,2008
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 500 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	**2008-06 Anadarko Blackhawk A-5H:208**
Operator:	**Anadarko Petroleum Corporation**
String type:	Intermediate
Project ID:	43-007-31402
Location:	Carbon County

Design parameters:

Collapse
Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 829 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 1,687 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 3,413 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 130 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Directional well information:
Kick-off point 4800 ft
Departure at shoe: 302 ft
Maximum dogleg: 8.4 °/100ft
Inclination at shoe: 56.17 °

Re subsequent strings:
Next setting depth: 3,820 ft
Next mud weight: 8.400 ppg
Next setting BHP: 1,667 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 3,898 ft
Injection pressure: 3,898 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	4000	7	20.00	J-55	ST&C	3898	4000	6.331	909.3

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1687	2074	1.230	1687	3740	2.22	68	234	3.43 J

Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: June 23,2008
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 3898 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	**2008-06 Anadarko Blackhawk A-5H:228**
Operator:	**Anadarko Petroleum Corporation**
String type:	Production
Project ID:	43-007-31402
Location:	Carbon County

Design parameters:

Collapse
Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 854 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 1,737 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

Tension:
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 3,509 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 131 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Directional well information:
Kick-off point 3331 ft
Departure at shoe: 705 ft
Maximum dogleg: 8.4 °/100ft
Inclination at shoe: 90.93 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft^3)
1	4426	5.5	17.00	J-55	LT&C	4014	4426	4.767	577.7

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	1737	4654	2.680	1737	5320	3.06	60	247	4.14 J

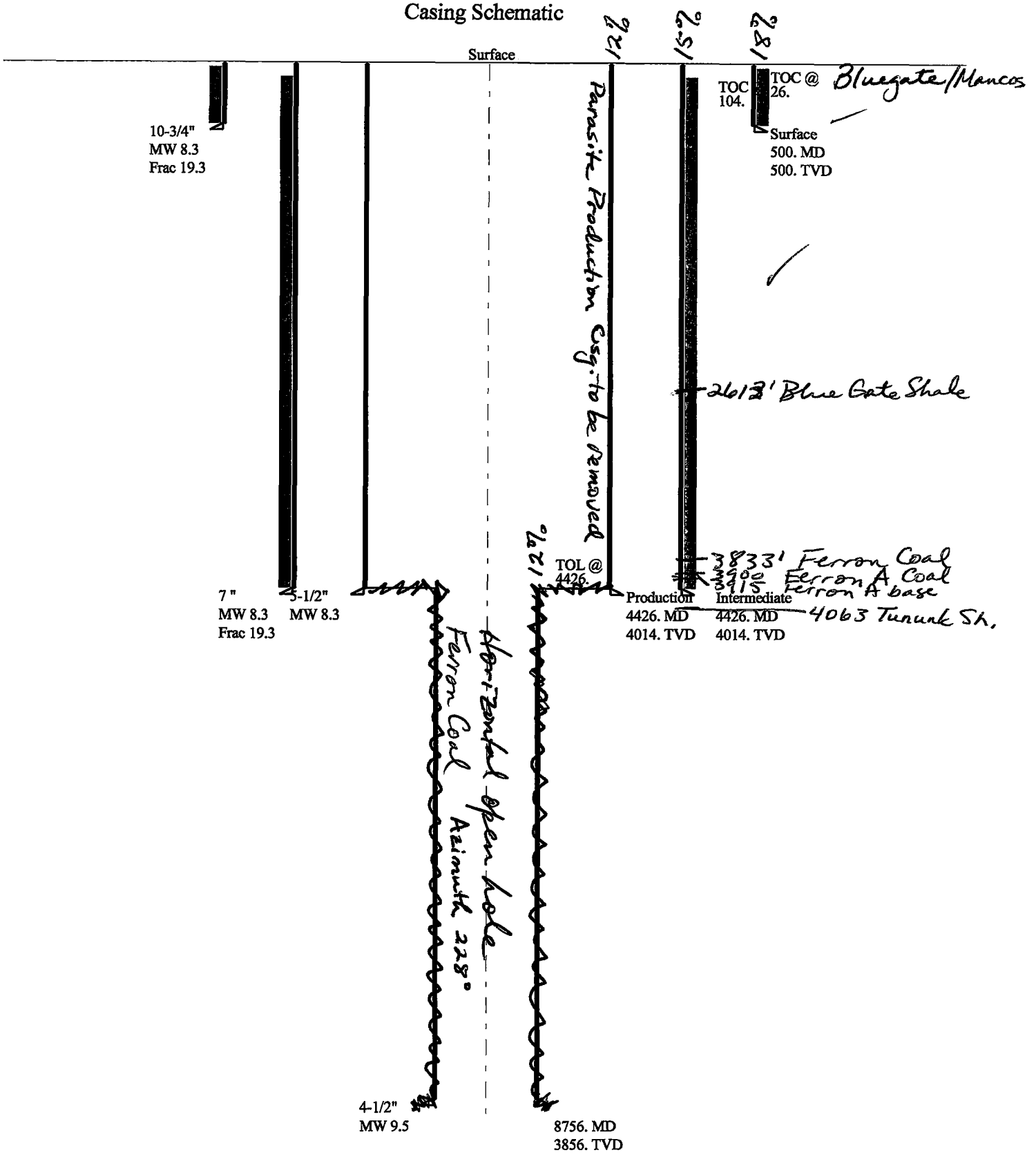
Prepared by: Helen Sadik-Macdonald, Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: June 16,2008
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 4014 ft, a mud weight of 8.33 ppg The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

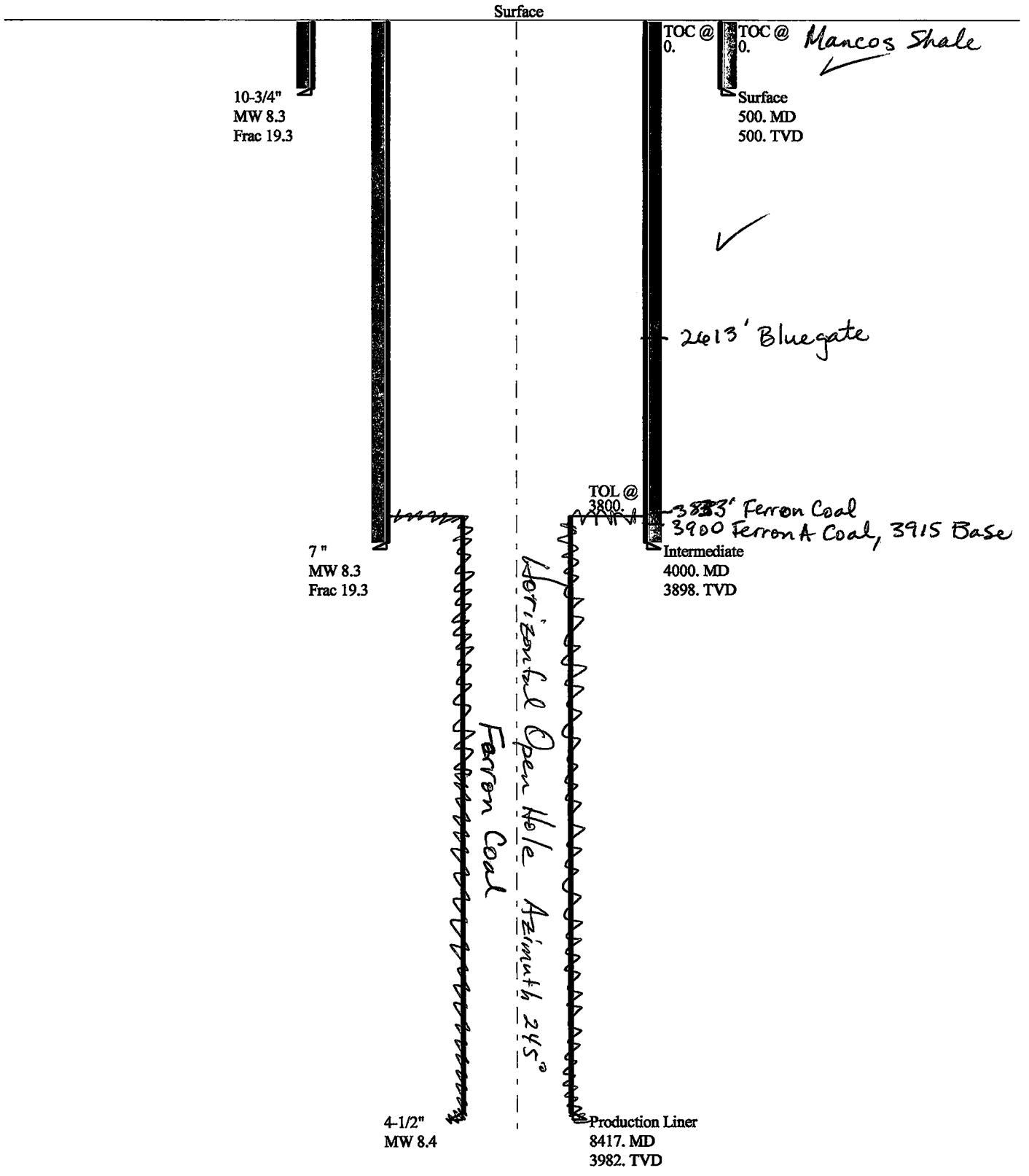
2008-06 Anadarko Blackhawk A-5H:228

Casing Schematic



2008-06 Anadarko Blackhawk A-5H:245

Casing Schematic



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

July 1, 2008

Anadarko Petroleum Corporation
1099 18th St., Ste. 1200
Denver, CO 80202

Re: Blackhawk A-5H Well, 1142' FNL, 263' FEL, NE NE, Sec. 20, T. 13 South, R. 10 East, Bottom Location 1 – 923' FSL, 1216' FWL, SW SW, Sec. 20, T. 13 South, R. 10 East, Bottom Location 2 – 711' FSL, 2087' FEL, SW SE, Sec. 20, T. 13 South, R. 10 East, Bottom Location 3 – 2328' FSL, 745' FWL, NW SW, Sec. 20, T. 13 South, R. 10 East, Carbon County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-007-31402.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Carbon County Assessor

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

UTAH DNR OIL, GAS & MINING

Operator: Anadarko Petroleum Corporation

Well Name & Number Blackhawk A-5H

API Number: 43-007-31402

Lease: Fee

Location:	NE NE	**Sec.** 20	**T.** 13 South	**R.** 10 East
Bottom Location 1:	SW SW	**Sec.** 20	**T.** 13 South	**R.** 10 East
Bottom Location 2:	SW SE	**Sec.** 20	**T.** 13 South	**R.** 10 East
Bottom Location 3:	NW SW	**Sec.** 20	**T.** 13 South	**R.** 10 East

Conditions of Approval

1. **General**

   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**

   The operator is required to notify the Division of Oil, Gas and Mining of the following action during drilling of this well:

   - 24 hours prior to cementing or testing casing – contact Dan Jarvis
   - 24 hours prior to testing blowout prevention equipment – contact Dan Jarvis
   - 24 hours prior to spudding the well – contact Carol Daniels
   - Within 24 hours of any emergency changes made to the approved drilling program – contact Dustin Doucet
   - Prior to commencing operations to plug and abandon the well – contact Dan Jarvis

   The operator is required to get approval from the Division of Oil, Gas and Mining before performing any of the following actions during the drilling of this well:

   - Plugging and abandonment or significant plug back of this well – contact Dustin Doucet
   - Any changes to the approved drilling plan – contact Dustin Doucet

   The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

   - Dan Jarvis at: (801) 538-5338 office (801) 942-0871 home
   - Carol Daniels at: (801) 538-5284 office
   - Dustin Doucet at: (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements:

   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

5. In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Form 3160-3
(August 2007)

RECEIVED
BLM FIELD OFFICE
2008 APR 29 PM 3:09

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires July 31, 2010

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

5. Lease Serial No. FEE * See Page 1 SUPO — Federal lease UTU74167S

6. If Indian, Allottee or Tribe Name: N/A

1a. Type of Work: [X] DRILL [ ] REENTER

7. If Unit or CA Agreement, Name and No.: N/A

1b. Type of Well: [ ] Oil Well [ ] Gas Well [X] Other **CBM** [X] Single Zone [ ] Multiple Zone

8. Lease Name and Well No.: **Blackhawk A-5H**

2. Name of Operator: **Anadarko Petroleum Corporation**
Contact: Grant Schluender, Drilling Engineer
E-mail: Grant.Schluender@anadarko.com

9. API Well No.: **43-007-31402**

3a. Address: **1099 18th Street**, Denver, CO 80202

3b. Phone No. *(include area code)*: 720-929-6000

10. Field and Pool, or Exploratory: **Helper Ferron A**

4. Location of Well *(Report location clearly and in accordance with any State Requirements.*)*

At surface: **1142' FNL, 263' FEL** **NE /4 NE /4** Lot:
Lat: **39.685470** Long: **-110.817271**

At proposed production zone: Three Horizontal (bird foot) orientation to bottom hole locations. **ML** ±923' FSL, ±1216' FWL **ML-L1** ±711' FSL, ±2087' FEL **ML-R2** ±2328' FSL, ±745' FWL

11. Sec., T., R., M., or Blk. and Survey or Area: **Sec. 20 T13S-R10E S.L.B.&M.**

14. Distance in miles and direction from nearest town or post office. *
Approximately 8.6 miles from Price, Utah

12. County or parish: **Carbon County**

13. State: **UT**

15. Distance from proposed location to nearest property or lease line, ft. (Also nearest Drlg, unit line, if any): Unit= N/A, Lease= 263'

16. No. of acres in lease: **160 acres**

17. Spacing Unit dedicated to this well: **160 acres**

18. Distance from proposed location to nearest well, drilling, completed or applied for, on this lease, ft.: 263'

19. Proposed depth: **4,000'** TVD

20. BLM/BIA Bond No. on file: BLM Bond ~~B20060098~~ WY6000291

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 6396.9' Ungraded Ground Level

22. Approximate date work will start *: July 15, 2008

23. Estimated duration: 45 days drilling, 7 days completion

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature: Debby J. Black — Name *(Printed/Typed)*: Debby J. Black (Debby.Black@Anadarko.com) — Date: April 14, 2008

Title: Staff Regulatory Analyst — 720-929-6472 (Direct Line)

Approved by *(Signature)*: — Name *(Printed/Typed)*: Michael Stiewig — Date: 7/18/08

Title: Acting Field Manager — Office: Price Field Office

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached. **CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious, or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JUL 22 2008
DIV. OF OIL, GAS & MINING

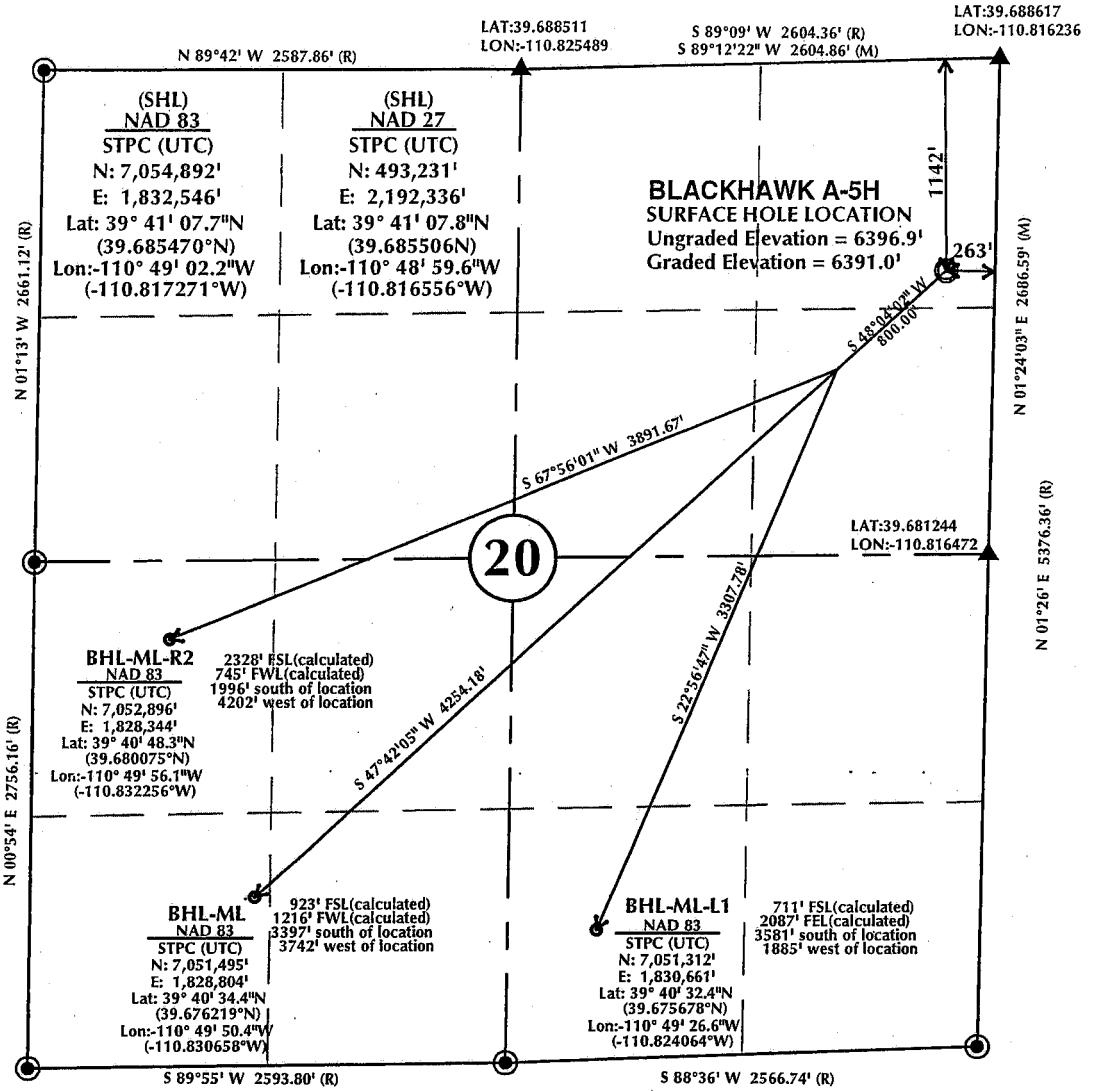
NOTICE OF APPROVAL

COPY

UDOGM

R. 10 E.

T. 13 S.



Certificate of Surveyor

I, Duane Fehringer do hereby certify that I am a registered land surveyor licensed under the laws of the State of Utah, and that this map was made from notes taken during an actual survey made by me or under my supervision on March 4, 2008 and that it correctly shows the location as staked on the ground during said survey, to the best of my knowledge.

DUANE D. FEHRINGER
PROFESSIONAL LAND SURVEYOR
UTAH REGISTRATION NUMBER 163167

DUANE D. FEHRINGER
No. 163167
04-08-08
STATE OF UTAH
PROFESSIONAL LAND SURVEYOR

NOTES:

1. ▲ INDICATES FOUND 1948 3 1/4" BLM BRASS CAP
2. ◉ INDICATES CALCULATED CORNER POSITION FROM RECORD
3. ELEVATION BASED ON NE COR SEC 20 FROM HELPER USGS QUADRANGLE
4. BASIS OF BEARING IS WGS84
5. BHL = BOTTOM HOLE LOCATION
6. ALL COORDINATES DERIVED FROM AUTONOMOUS GPS SURVEY

Reference Stakes:
150' North - EL: 6428.1'
200' North - EL: 6439.7'
200' West - EL: 6390.2'
250' West - EL: 6405.6'

HORIZONTAL 0 500 1000 1" = 1000'

ANADARKO PETROLEUM CORPORATION
1099 18th Street, Suite 1200 - Denver, Colorado 80202

BLACKHAWK A-5H
WELL PLAT
1142' FNL, 263' FEL
NE1/4NE1/4 SECTION 20, T.13S., R.10E.
S.L.M., CARBON COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=1000'	Date: 04/08/08	SHEET NO:
REVISED:	BY DATE	2 OF 8

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
PRICE FIELD OFFICE
125 SOUTH 600 WEST PRICE, UT 84501 (435) 636-3600

CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	**Anadarko Petroleum Corporation**	**Location:**	**NENE-Sec. 20-T13S-R10E**
Well No:	**Blackhawk A-5H**	**Lease No:**	**UTU-71675**
API No:	**43-007-31402**	**Agreement:**	**Undesignated/Ferron**

Title	Name	Office Phone Number	Cell Phone Number
Acting Field Manager & Authorized Officer:	Michael Stiewig	(435) 636-3633	(435) 650-9135
Senior Petroleum Engineer:	Matthew Baker (Primary)	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	James Ashley (Alt.)	(435) 781-4470	(435) 828-7874
Petroleum Engineering Technician	Randy Knight (Primary)	(435) 636-3615	(435) 650-9143
Petroleum Engineering Technician	Walton Willis (Alt.)	(435) 636-3662	(435) 650-9140
NRS/Enviro Scientist:	Nathan Sill (Primary)	(435) 636-3668	
NRS/Enviro Scientist:	Don Stephens (Alt.)	(435) 636-3608	

Fax: (435) 636-3657

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify NRS)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify NRS)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)

- The reserve pit will be lined with an impermeable liner. An impermeable liner is any liner having a permeability less than 10^{-7} cm/sec. The liner will be installed so that it will not leak and will be chemically compatible with all substances that may be put in the pit. Liners made of any man-made synthetic material will be of sufficient strength and thickness to withstand normal installation and pit use. In gravelly or rocky soils, a suitable bedding material such as sand will be used prior to installing the liner.

- For reducing visual contrast, all production facilities to remain on-site longer than 6 months will be painted a flat, non-reflective standard environmental color (Olive Black 5WA20-6), approved by the Rocky Mountain Five State Interagency Committee, prior to installation. This Fuller O'Brien color is for reference only. This will include all facilities except those required to comply with Occupational Safety and Health (OSHA) regulations. These facilities will be painted within 6 months of installation the color stipulated by OSHA and the BLM Price Field Office.

- Reserve pits will be closed as soon as possible, but no later than 90 days from time of drilling/well completion, unless the BLM Authorized Officer grants an extension. Squeezing of pit fluids and cuttings is prohibited. Pits must be dry of fluids or the fluids must be removed via vac-truck or other environmentally acceptable method prior to backfilling, re-contouring and replacement of topsoil. Mud and cuttings left in pit must be buried at least 3-feet below re-contoured grade. The operator will be responsible for re-contouring any subsidence areas that develop from closing a pit before it is sufficiently dry.

- The following appendices are attached for your reference. They are to be followed as conditions of approval:
  - Appendix 1: Wildlife Seasonal Restriction and Surface Disturbance Mitigation Plan
  - Appendix 2: Seed Mixtures for Reclamation/Revegetation Areas
  - This well is within crucial mule deer winter range and therefore subject to the seasonal closure dates (December 1-April 15)

- Reserve pits will be adequately fenced during and after drilling operations until pit is reclaimed so as to effectively keep out wildlife and livestock. Adequate fencing, in lieu of more stringent requirements by the surface owner, is defined as follows:
  - Construction materials will consist of steel or wood posts. Three or four strand wire (smooth or barbed) fence or hog panel (16-foot length by 50-inch height) or plastic snow fence must be used with connectors such as fence staples, quick-connect clips, hog rings, hose clamps, twisted wire, etc. Electric fences will not be allowed.
  - Construction standards: Posts shall be firmly set in ground. If wire is used, it must be taut and evenly spaced, from ground level to top wire, to effectively keep out animals. Hog panels must be tied securely into posts and one another using fence staples, clamps, etc. Plastic snow fencing must be taut and sturdy. Fence must be at least 2-feet from edge of pit. 3 sides fenced before beginning drilling, the fourth side fenced immediately upon completion of drilling and prior to rig release. Fence must be left up and maintained in adequate condition until pit is closed.

Standard Conditions of Approval

- The Companies will provide geo-referenced spatial data depicting as-built locations of all facilities, wells, roads, pipelines, power lines, and other related facilities to the BLM by November 1 of each year until completion of project construction activities has occurred.

- If any dead or injured threatened, endangered, proposed, or candidate species is located during construction or operation, the BLM Price Field Office (435-636-3600) shall be notified within 24 hours.

- To reduce the introduction or spread of noxious and invasive weed species via project-related vehicles and equipment into the Project Area, Anadarko and its contractors shall power-wash all construction equipment and vehicles prior to the start of construction.

- Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the operator, or any person working on his behalf, on public land is to be immediately reported to the Price BLM Office. The operator will suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Price BLM Office. An evaluation of the discovery will be made by the BLM to determine appropriate actions to prevent the loss of significant cultural or scientific values. The operator is responsible for the cost of evaluation of any site found during construction. The BLM will determine what mitigation is necessary.

Construction

- Construction and surface disturbing activities will not be conducted during periods of frozen or saturated soils when watershed damage or excessive rutting is likely to occur.

- Remove the top 6 inches of topsoil from constructed well locations including areas of cut and fill, and stockpile at the site. Topsoil will also be salvaged for use in reclamation on all other areas of surface disturbance (roads, pipelines, etc.). Clearly segregate topsoil from excess spoil material. Any topsoil stockpiled for one year or longer will be signed and stabilized in accordance with a BLM approved reclamation/revegetation plan.

- Drill pads and facility sites are to be designed to prevent overland flow of water from entering or leaving the site. Storm water collected on disturbed sites will be prevented from flowing off the site and the pad is to be sloped to provide for zero runoff. The drill pad shall be designed to disperse diverted overland flow and to regulate flow velocity so as to prevent or minimize erosion. Well pad diversion outlets shall be equipped with rock energy brakes and gravel-bedded dispersion fans.

- The operator will not push soil material and overburden over side slopes or into drainages. All soil material disturbed will be placed in an area where it can be retrieved without creating additional undue surface disturbance and where it does not impede watershed and drainage flows.

- Construct the backslope no steeper than 1½:1, and construct the foreslope no steeper than 2:1, unless otherwise directed by the BLM Authorized Officer.

- Maintain a minimum 20-foot undisturbed vegetative border between toe-of-fill of pad and/or pit areas and the edge of adjacent drainages, unless otherwise directed by the BLM Authorized Officer.

- The reserve pit will be oriented to prevent collection of surface runoff. After the drilling rig is removed, the operator may need to construct a trench on the uphill side of the reserve pit to divert surface drainage around it. If constructed, the trench will be left intact until the pit is closed.

- Culverts will be placed on channel bottoms on firm, uniform beds, which have been shaped to accept them, and aligned parallel to the channel to minimize erosion. Backfill will be thoroughly compacted.

- The minimum diameter for culverts will be 18 inches. However, all culverts will be appropriately sized in accordance with standards in BLM Manual 9113.

- Maximum design speed on all operator-constructed and maintained roads will not exceed 25 miles per hour and all access roads and well location speed limits will not exceed 15 miles per hour.

- During construction, emissions of particulate matter from well pad and road construction would be minimized by application of water or other non-saline dust suppressants with at least 50 percent control efficiency. Dust inhibitors (surfacing materials, non-saline dust suppressants, and water) will be used as necessary on unpaved roads that present a fugitive dust problem. The use of chemical dust suppressants on public surface will require prior approval from the BLM Authorized Officer.

- During the construction phase of the project, Anadarko shall implement an intensive reclamation and weed control program after each segment of project completion. Anadarko will reseed all portions of wells pads and the ROW not utilized for the operational phase of the project. Post-construction seeding application will continue until determined successful by the BLM or the private surface owner. Weed control will be conducted through an Approved Pesticide Use and Weed Control Plan from the AO.

Operations/Maintenance

- All waste, other than human waste and drilling fluids, will be contained in a portable trash cage. This waste will be transported to a State approved waste disposal site immediately upon completion of drilling operations. No trash or empty barrels will be placed in the reserve pit or buried on location. All state and local laws and regulations pertaining to disposal of human and solid waste will be complied with.

- Weed and reclamation monitoring shall continue throughout the life of the project until determined successful by the AO. The operator will be responsible for prevention and control of noxious weeds and weeds of concern on all areas of surface disturbance associated with this project (well locations, roads, water management facilities, etc.) Use of pesticides shall comply with the applicable Federal and State laws. Pesticides shall be used only in accordance with their registered uses and within limitations imposed by the Secretary of Interior. Prior to the use of pesticides on public land, the holder shall obtain from the BLM authorized officer written approval of a plan showing the type and quantity of material to be used, pest(s) to be controlled,

method of application, location of storage and disposal of containers, and any other information deemed necessary by the authorized officer to such use.

- Hydrocarbons shall be put in test tanks on location during completion work. Produced water will be put in the reserve pit during completion work per Onshore Order #7.

- The only fluids/waste materials which are authorized to go into the reserve pit are RCRA exempt exploration and production wastes. These include:
    - drilling muds & cuttings
    - rigwash
    - excess cement and certain completion & stimulation fluids defined by EPA as exempt
        - It does not include drilling rig waste, such as:
            - spent hydraulic fluids
            - used engine oil
            - used oil filter
            - empty cement, drilling mud, or other product sacks
            - empty paint, pipe dope, chemical or other product containers
            - excess chemicals or chemical rinsate
        - Any evidence of non-exempt wastes being put into the reserve pit may result in the BLM Authorized Officer requiring specific testing and closure requirements.

Producing Well

- Reclaim those areas not required for production as soon as possible to the surrounding topography.

- All production facilities (including dikes) including gas meters, tank batteries, etc. must be placed on the well pad location and a minimum of 15 feet from the toe of the back cut unless otherwise approved by the BLM Authorized Officer.

- Any spilled or leaked oil, produced water or treatment chemicals must be reported in accordance with NTL-3A and immediately cleaned up in accordance with BLM requirements. This includes clean-up and proper disposition of soils contaminated as a result of such spills/leaks.

- Distribute stockpiled topsoil evenly over those areas not required for production and reseed as recommended.

Roads and Pipelines

- All necessary ROWs including pipeline, power line, water line and road, etc. shall be obtained prior to any construction, surface disturbing activities, or drilling.

Dry Hole/Reclamation

- Interim reclamation will be initiated as soon as is practical after construction and drilling operations. Areas to be reclaimed include but are not limited to road out-slopes, areas disturbed during installation of electric, water and gas lines and areas of well pad sites no longer needed for drilling operation activities. Interim reclamation operations will follow BLM guidelines and only BLM approved seed mixes will be used.

- Upon cessation of production of the project the Proponent will expediently reclaim and reseed all disturbed lands including but not limited to well pad sites, access roads, compressor sites and water treatment facilities, in accordance with BLM guidelines and any pertinent COAs.

- Disturbed lands will be re-contoured back to conform with existing undisturbed topography. No depressions will be left that trap water or form ponds.

- Before the location has been reshaped and prior to redistributing the topsoil, the operator will rip or scarify the drilling platform and access road on the contour, to a depth of at least 12 inches. The rippers are to be no farther than 24 inches apart.

- Distribute the topsoil evenly over the entire location and other disturbed areas. Prepare the seedbed by disking to a depth of 4-to-6 inches following the contour.

- Phased reclamation plans will be submitted to BLM for approval prior to individual POD facility abandonment via a Notice of Intent (NOI) Sundry Notice. Individual facilities, such as well locations, pipelines, discharge points, impoundments, etc. need to be addressed in these plans as they are no longer needed. Individual items that will need to be addressed in reclamation plans include:
- Configuration of reshaped topography, drainage systems, and other surface manipulations

- Waste disposal

- Revegetation methods, including specific seed mix (pounds pure live seed/acre) and soil treatments (seedbed preparation, fertilization, mulching, etc.). On private surface, the landowner should be consulted for the specific seed mix.

- Other practices that will be used to reclaim and stabilize all disturbed areas, such as water bars, erosion fabric, hydro-mulching, etc.

- An estimate of the timetables for beginning and completing various reclamation operations relative to weather and local land uses.

- Methods and measures that will be used to control noxious weeds, addressing both ingress and egress to the individual well or POD.

- Decommissioning/removal of all surface facilities

- BLM will not release the performance bond until all disturbed areas associated with the APD/POD have been successfully revegetated (evaluation will be made after the second complete growing season) and has met all other reclamation goals of the surface owner and surface management agency.

- A Notice of Intent to Abandon and a Subsequent Report of Abandonment must be submitted for abandonment approval.

- For performance bond release approval, a Final Abandonment Notice (with a surface owner release letter on split-estate) must be submitted prior to a final abandonment evaluation by BLM.

- Soil fertility testing and the addition of soil amendments may be required to stabilize some disturbed lands.

- Any mulch utilized for reclamation needs to be certified weed free.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- The proposed 2M BOPE is adequate for anticipated conditions. Any equipment rated higher than 2M need only be tested to 2M standards. Installation, testing and operation of the system shall be in conformance with Onshore Oil and Gas order No. 2.

- Concurrent approval from the State of Utah. Division of Oil, Gas and Mining (DOGM) is required before conducting any surface disturbing activities.

- When drilling with air, the requirements of Onshore Oil & Gas Order No. 2, Part III.E *Special Drilling Operations*, shall apply. The blooie line discharge point is to be a minimum of 60 feet from the wellhead.

- If cement does not circulate to surface on the 7-inch casing, a cement bond log (CBL), or other appropriate tool for determining top-of-cement, shall be run and shall be submitted to the BLM.

- Drilling reports, which describe the activities of each day, shall be submitted to the BLM Price Field Office on a weekly, or more frequent basis. In addition to a daily summary of activities, drilling reports shall include the drilling fluid weight, details of casing and cement, water flows, lost circulation zones and any other information that would contribute to our understanding of drilling conditions.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Price Field Office within 24 hours of spudding.

- Notify Price Field Office Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.

- If air drilling operations are utilized, the requirements of Onshore Oil & Gas Order No. 2, Part III.E *Special Drilling Operations*, shall be implemented.

- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.

- No aggressive/fresh hard-banded drill pipe shall be used within casing.

- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Price Field Office.

- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Price Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Price BLM office engineer within 30 days of the completion of the well.

- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Price Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.

- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.

- The use of a flow conditioner in lieu of straightening vanes in the gas meter run cannot be approved with the information provided. This proposal is not consistent with the provisions of Onshore Oil & Gas Order No. 5, and as such, can only be considered for approval as a "variance" from Order No. 5. A written request for variance would identify the Order No. 5 requirement(s) from which the variance is being requested, and it would included supporting justification as to how the alternate method of measurement would meet or exceed the minimum standards established in Order No. 5. A variance request for the use of a flow conditioner would also include the make, model, dimensions, and description of use for the specific flow conditioner being proposed.

- **Please submit a copy of all other logs run on this well to the BLM Price Field Office.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Price Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.

- Should the well be successfully completed for production, the BLM Price Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.
    - Well name and number.
    - Well location (¼¼, Sec., Twn, Rng, and P.M.).
    - Date well was placed in a producing status (date of first production for which royalty will be paid).
    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
    - Unit agreement and/or participating area name and number, if applicable.
    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Price Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Price Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or

data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Price Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Price Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Price Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Price Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Price Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Price Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Price Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Price Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: BLACKHAWK A-5H
2. NAME OF OPERATOR: ANADARKO PETROLEUM CORPORATION	9. API NUMBER: 4300731402
3. ADDRESS OF OPERATOR: 1099 18TH ST. STE 1800 CITY DENVER STATE CO ZIP 80202 / PHONE NUMBER: (720) 929-6832	10. FIELD AND POOL, OR WILDCAT: HELPER/ FERRON A
4. LOCATION OF WELL: FOOTAGES AT SURFACE: 1142' FNL, 263' FEL LAT: 39.685470 LONG: -110.817271	COUNTY: CARBON
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 8/8/2008	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Changing Surface Casing Connection
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko Petroleum Corporation received a verbal approval from BLM Engineer Ryan Engas at 0930hrs on 7/31/2008 for the following: Fee well

1) Buttress Thread Coupling (BTC) will be used as the Surface Casing Connection
2) Daily Operation Summary Report will be sent in when the well is completed and not weekly as stated in the Conditions of Approval.

Thank you.

COPY SENT TO OPERATOR
Date: 8·14·2008
Initials: KS

NAME (PLEASE PRINT) Cindy B Vue TITLE Regulatory Analyst

SIGNATURE Cindy B Vue DATE 7/31/2008

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8/12/08
BY:

RECEIVED
AUG - 1 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **ANADARKO PETROLEUM CORP**

Well Name: **BLACKHAWK A-5H**

Api No: **43-007-31402** Lease Type: **FEE**

Section **20** Township **13S** Range **10E** County **CARBON**

Drilling Contractor **H & P** RIG # **298**

SPUDDED:

Date **08/06/08**

Time **2:00 PM**

How **DRY**

Drilling will Commence:

Reported by **DOUG BARONE**

Telephone # **(307) 258-6086**

Date **08/06/08** **Signed** **CHD**

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE *UTU71675
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: Blackhawk A-5H
9. API NUMBER: 43-007-31402
10. FIELD AND POOL, OR WILDCAT: Helper Ferron A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM
2. NAME OF OPERATOR: Anadarko Petroleum Corporation
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (720) 929-6000
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1142' FNL, 263' FEL Lat: 39.685470 Long:-110.817271 COUNTY: Carbon County
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 8/12/2008	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☑ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko Petroluem is respectfully submitting a change in the Casing Hole Size on the approved APD. The UDOGM APD submitted April 14, 2008 and approved July 1, 2008 had the original size hole of 13-3/8".

Anadarko requests to change the Casing Hole Size to 13-1/2". A verbal request for approval was called in to the Price-BLM with Ryan Engas at 8am on 8/8/2008. Please call Drilling Engineer Grant Schluender for any questions 720-929-6557.

Thank you.

COPY SENT TO OPERATOR
Date: 8·14·2008
Initials: KS

NAME (PLEASE PRINT) Cindy B Vue TITLE Regulatory Analyst
SIGNATURE [signature] DATE 8/8/2008

(This space for State use only)
APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 8/12/08
BY: [signature]

(5/2000) (See Instructions on Reverse Side)

RECEIVED
AUG 11 2008
DIV. OF OIL, GAS & MINING

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE *UTU 71675

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM

8. WELL NAME and NUMBER: Blackhawk A-5H

2. NAME OF OPERATOR: Anadarko Petroleum Corporation

9. API NUMBER: 43-007-31402

3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (720) 929-6832

10. FIELD AND POOL, OR WILDCAT: Helper/ Ferron A

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1142' FNL, 263' FEL

COUNTY: Carbon

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 8/9/2008	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: SPUD WELL
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

BLACKHAWK A-5H was SPUD at 10:37am on 8/9/2008.

Thank you.

NAME (PLEASE PRINT) Cindy B. Vue TITLE Regulatory Analyst

SIGNATURE Cindy B Vue DATE 8/11/2008

(This space for State use only)

RECEIVED
AUG 12 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: ANADARKO PETROLEUM CORPORATION
Operator Account Number: N 0035
Address: 1099 18th St. Ste 1800
city Denver
state Co zip 80202
Phone Number: (720) 929-6832

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4300731402	Blackhawk A-5H		NENE	20	13S	10E	Carbon
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	17029	8/9/2008			8/14/08	

Comments: CONDUCTOR SPUD AT 10:37AM 8/9/2008
FRSD BHL1 = SWSW (BLM) BHL2 = SWSE (FEE) BHL3 = NWSE (BLM)

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	

Comments:

RECEIVED
AUG 12 2008
DIV. OF OIL, GAS & MINING

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

Cindy B. Vue
Name (Please Print)
Cindy B Vue
Signature
Regulatory Analyst
Title
8/11/2008
Date

(5/2000)

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

5. Lease Serial No.
FEE *UTU71675

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
BLACKHAWK A-5H

2. Name of Operator
ANADARKO PETROLEUM CORPORATION

9. API Well No.
43-007-31402

3a. Address
1099 18TH ST. STE 1800
DENVER, CO 80202

3b. Phone No. *(include area code)*
720-929-6832

10. Field and Pool or Exploratory Area
HELPER/ FERRON A

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
1142' FNL, 263' FEL LAT: 39.685470 LONG: -110.817271

11. Country or Parish, State
CARBON, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	_____
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	_____

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Per 10-pt plan Anadarko intends to set two kick-off plugs at a depth of 3300'-3600' and from 3000'-3290'. In addition to the plan and due to extreme losses a 50sx plug will also be placed over the loss zone at 2450' - 2500'. All three plugs will be Class "A" with 6% NaCl with the addition of 12% Gypsum in the lost-circulation plug.

Also, due to geology deepening as seen obtaining core and vertical control, Anadarko intends to set the 7" 20# J55 to a maximum of 4200' TVD. This casing and production will still be in the Ferron "A" formation.

Any questions or concerns may be addressed to me at:
Grant Schluender
Drilling Engineer
Anadarko Petroleum Corporation
Direct: 720.929.6557
Main: 720.929.6000

COPY SENT TO OPERATOR
Date: 2.29.2008
Initials: KS

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
CINDY B VUE

Title REGULATORY ANALYST

Signature Cindy B Vue

Date 08/27/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Federal Approval Of This Action Is Necessary

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 9/22/08
BY:

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
AUG 28 2008
DIV. OF OIL, GAS & MINING

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

Vue, Cindy

From: Jim_Ashley@blm.gov
Sent: Wednesday, August 27, 2008 11:33 AM
To: Vue, Cindy; Schluender, Grant
Cc: Katie_Nash@blm.gov; Randy_Knight@blm.gov; Walton_Willis@blm.gov
Subject: Re: Blackhawk A-5H Cement Plug Sundry

Attachments: BLACKHAWK A-5H SUNDRY 8-27-08.tif

BLACKHAWK A-5H SUNDRY 8-27-08....

Cindy & Grant,

This email is verbal/oral approval to proceed as per the attached Sundry Notice. When you are ready to set the cement plugs, please notify Walton Willis, PET Price Field Office, 435-650-9140 cell or Randy Knight, PET Price Field Office, 435-650-9143 cell, so one of the PETs can witness the cement plugs if available.

Sincerely,

Jim Ashley
Senior Petroleum Engineer
BLM Vernal Field Office
435-781-4470 office
435-828-7874 cell

"Vue, Cindy" <Cindy.Vue@anadarko.com>
08/27/2008 11:03 AM

To: <Jim_Ashley@blm.gov>
cc: "Schluender, Grant" <Grant.Schluender@anadarko.com>
Subject: Blackhawk A-5H Cement Plug Sundry

Dear Jim:

Attached is the sundry for Blackhawk A-5H about the Cement Plugs for your review. This will be sent overnight via UPS today. Thank you.

<<BLACKHAWK A-5H SUNDRY 8-27-08.tif>>

Cindy H Vue
Anadarko E&P Company, LP

PO BOX 173779, Denver, CO 80217-3779
1099 18th St. Ste 1800, Denver, CO 80202 Regulatory Analyst
Direct: 720 929-6832
Fax: 720 929-7832
Cindy.Vue@anadarko.com

*** Please note email change: Cindy.Vue@anadarko.com Thank you!*** Aka-Cindy Hur (Maiden Name)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	UTU 71675 *FEE
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM	8. WELL NAME and NUMBER: Blackhawk A-5H
2. NAME OF OPERATOR: Anadarko Petroleum Corporation	9. API NUMBER: 4300731402
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (720) 929-6832	10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1142' FNL, 263' FEL LAT: 39.685470 LONG: -110.817271 COUNTY: CARBON

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Drill Cement out with 3-1/2" Drillpipe
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko respectfully requests to drill cement out of 7" casing and 10' outside of the guide shoe with 3-1/2" drillpipe without running 3-1/2" pipe rams and testing said rams. There is a working annular preventor on location.

Verbal approval was received at 0930hrs on 16Sept2008 from Jim Ashley, Senior Petroleum Engineer at the Vernal BLM.

COPY SENT TO OPERATOR
Date: 10.14.2008
Initials: KS

NAME (PLEASE PRINT) CINDY B VUE TITLE REGULATORY ANALYST

SIGNATURE Cindy B Vue DATE 9/16/2008

(This space for State use only)

REQUEST DENIED
Utah Division of
Oil, Gas and Mining
Date: 10/7/08
By: (See Instructions on Reverse Side)
* Fee well

RECEIVED
SEP 17 2008
DIV. OF OIL, GAS & MINING

(5/2000)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE *UTU71675
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A
7. UNIT or CA AGREEMENT NAME: N/A
8. WELL NAME and NUMBER: BLACKHAWK A-5H
9. API NUMBER: 43-007-31402
10. FIELD AND POOL, OR WILDCAT: HELPER/FERRON A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM
2. NAME OF OPERATOR: Anadarko Petroleum Corporation
3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202 PHONE NUMBER: (720) 929-6832
4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1142' FNL, 263' FEL LAT: 39.685470 LONG: 110.817271 COUNTY: Carbon
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 10/28/2008	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: WELL: SHUT-IN Status
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

After setting 7" intermediate casing at 4,490' and a 5-1/2" concentric casing string to 4,279', a horizontal lateral was drilled to 6,239'. Failing to encounter the Ferron 'A' coal section, a decision has been made to suspend drilling operations and move the drilling rig off pending a full evaluation to determine how the coal section can best be intercepted and drilled. It is proposed that The 5-1/2" concentric casing string be pulled and laid down and a balanced cement plug be set from +/-4,300' - 4,100' (200'). After tagging the cement plug to confirm setting, the drilling string will be laid down, the wellhead capped and the rig moved off location. It is anticipated that evaluation of drilling alternatives will be conducted through the wildlife stipulations period and further drilling attempted within one year.

COPY SENT TO OPERATOR
Date: 11.25.2008
Initials: KS

NAME (PLEASE PRINT) Cindy B. Vue TITLE Regulatory Analyst
SIGNATURE Cindy B. Vue DATE 10/27/2008

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE 11/18/08
BY:

(See Instructions on Reverse Side)

RECEIVED
OCT 28 2008
DIV. OF OIL, GAS & MINING

(5/2000)

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE *UTU71675

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM

8. WELL NAME and NUMBER: BLACKHAWK A-5H

2. NAME OF OPERATOR: Anadarko Petroleum Corporation

9. API NUMBER: 43-007-31402

3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (720) 929-6832

10. FIELD AND POOL, OR WILDCAT: HELPER/FERRON A

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1142' FNL, 263' FEL LAT: 39.685470 LONG: 110.817271

COUNTY: Carbon

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Drilling Summary
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Attached is the Drilling Operation Summary Report. Thank you.

NAME (PLEASE PRINT) Cindy B. Vue TITLE Regulatory Analyst

SIGNATURE Cindy B. Vue DATE 10/27/2008

(This space for State use only)

RECEIVED
OCT 28 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
7/30/2008	7:00 - 17:00	10.00	MAINT	02		P		MIRU NELCO DOZERS & TRACK HOE. STARTED CONSTRUCTION OF ROAD LOCATION. COMPLETED - INSTALLED 100' 24". INSTALLED PIT ANCHOR FOR BLEWY LINE.
8/3/2008	19:30 - 21:00	1.50	RDMO	01	E	P		Rig down back yard
	21:00 - 0:00	3.00	RDMO	01	E	P		Wait on daylight
8/4/2008	0:00 - 6:00	6.00	RDMO	01	E	P		Wait on daylights
	6:00 - 20:00	14.00	RDMO	01	E	P		Rig down rotary tools, lower derrick, gas buster, shaker skid, sub and secure all lose equipment for long road trip Stack out back yard along road and prep for haul trucks in the morning. Wait on derrick
	20:00 - 0:00	4.00	RDMO	01	E	P		Wait on daylight
8/5/2008	0:00 - 6:00	6.00	RDMO	01	E	P		Wait on daylight
	6:00 - 20:00	14.00	RDMO	01	A	P		Load both generators, mud pump, diesel tanks, mud tanks, crown section of derrick, oil house, water tank, company mans house, mud loggers house, shaker skid, VFD, MCC. Total of 16 loads left for Utah
	20:00 - 0:00	4.00	RDMO	01	A	P		Wait on daylight
8/6/2008	0:00 - 6:00	6.00	RDMO	01	A	P		Wait on daylight
	6:00 - 18:00	12.00	RDMO	01	A	P		Continue to move rig to location. Assembly equipment in preparation for rig up. The following equipment has arrive on location: Crown section of derrick, mud mixing tank, #1 pump, settling mud tank, diesel tank, water tank, cat walk, beaver slide, drill collars and HWDP, Co-man's house, 1 double sleeper house, oil house, both generators, draw works, drilling line, BOP skid, shaker skid, drillers side sub, center sub, dog house, change house, VFD house, HPU house, toolpushers house. There is more edquipment on the road.
	18:00 - 0:00	6.00	RDMO	01	A	P		Wait on daylight
8/7/2008	0:00 - 6:00	6.00	RDMO	01	A	P		Wait on daylight
	6:00 - 18:00	12.00	RDMO	01	A	P		Continue to move the following rig to location: Choke & trip tank, parts house, rig crew living quarters, BOP handler, Potable water tank, connex, pit side of sub, bottom of derrick. Rearrange equip on lower location and set 1-DBL ended sleeper, H&P crew quarters and old co-man's office. #2 mud pump and MCC house was in Roosevelt, UT
	18:00 - 0:00	6.00	RDMO	01	A	P		Wait on daylight
8/8/2008	0:00 - 6:00	6.00	RDMO	01	A	S		Wait on 3D Drilling and daylight

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	6:00 - 18:00	12.00	RDMO	12	E	S		Wait on 3D Drilling to arrive on location; 06:00 hrs contact; rig was loading up and headed to location. 10:30 hrs contact; rig in route to location. 14:00 hrs contact; truck hauling pipe, cellar ring and digging tools was lost in Helper UT, they were directed to location, truck un-hooked from trailer and drove to Wellington to wait on rig. 16:30 hrs contact; rig stuck in Utah/Colorado port of entry trying to get all permits needed to enter Utah. 20:00 hrs contact; rig had cleared all necessary permits to leave port of entry but could not leave due to truck hauling it does not have proper authority to enter Utah and waiting to be cleared. All rig components are on location
	18:00 - 0:00	6.00	RDMO	12	E	S		Wait on 3D Drilling and daylight
8/9/2008	0:00 - 6:00	6.00	RDMO	01	A	S		Wait on 3D Drilling and daylight
	6:00 - 10:00	4.00	DRLCON	01	D	P		Wait on 3D Drilling
	10:00 - 10:30	0.50	DRLCON	01	D	P		Unload 3D Drilling rathole rig
	10:30 - 20:30	10.00	DRLCON	01	D	P		Drill conductor hole to 65' at 20:30 hrs
	20:30 - 0:00	3.50	DRLCON	01	D	P		Continue to drill conductor w/ 3D Drilling. H&P shut down and wait on daylight
8/10/2008	0:00 - 6:00	6.00	DRLCON	01	D	S		Drill conductor to 80' GL and cellar
	6:00 - 11:00	5.00	DRLCON	01	D	S		Pickup conductor pipe and weld together. Cement conductor w/ Superior
	11:00 - 0:00	13.00	DRLCON	01	D	S		Drill mouse hole, hard rock drilling
8/11/2008	0:00 - 6:00	6.00	DRLCON	01	D	P		Wait on welder and daylight
	6:00 - 8:00	2.00	DRLCON	01	D	P		Weld up mouse hole pipe
	8:00 - 9:30	1.50	DRLCON	01	D	P		Wait on Superior Well Service
	9:30 - 12:00	2.50	DRLCON	01	D	P		Finish cementing top of conductor and cement mouse hole
	12:00 - 13:00	1.00	DRLCON	01	B	P		Lay out location for rig up
	13:00 - 13:30	0.50	DRLCON	01	B	P		HSM w/ Hemphill trucking and rig crews
	13:30 - 20:00	6.50	DRLCON	01	B	P		MIRU the following equipment: shaker skid, settling tank, suction tank, both mud pumps, MCC house, water tank, oil house, VFD house, both generators, diesel tank, draw works, mud boat, BOP handler, substructure and raise substructure. Estimate 55-60% rigged up
	20:00 - 0:00	4.00	DRLCON	01	B	P		Wait on daylight
8/12/2008	0:00 - 6:00	6.00	DRLCON	01	B	P		Wait on daylight
	6:00 - 20:00	14.00	DRLCON	01	B	P		Continue to rig up the following equipment: Set and raise dog house, raise shakers, raise gas buster, install flow line, cat walk, beaver slide, set parts house, set HPU, assemble derrick and raise, derrick up at 16:25 hrs, set houses on location, hookup electrical lines, set pipe racks and load w/ BHA, unload casing
	20:00 - 0:00	4.00	DRLCON	01	B	P		Wait on daylight
8/13/2008	0:00 - 6:00	6.00	MIRU	12	D	P		WAIT ON DAYLIGHT.
	6:00 - 22:00	16.00	MIRU	01	B	P		Continue to rig up the following equipment: Install flow line, rig up floor, hook up flare lines, Set houses on location, hookup electrical lines, set pipe racks and load w/ BHA,
	22:00 - 0:00	2.00	MIRU	05	A	P		Mix spud mud - pickup BHA
8/14/2008	0:00 - 1:00	1.00	PRPSPD	05	A	P		ATTEMPT TO MAKE UP BIT WITH SCORPION HAVING TROUBLE WITH ADJUSTMENT ARMS

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H

Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	1:00 - 7:00	6.00	PRPSPD	07	A	X		WAIT ON NEW SCORPION
	7:00 - 8:00	1.00	PRPSPD	07	B	X		ATTEMPT TO MAKE UP BIT.
	8:00 - 13:00	5.00	PRPSPD	07	A	X		WAIT ON WELDER/ CUT BIT BREAKER TO FIT IN SCORPION.
	13:00 - 14:00	1.00	PRPSPD	05	A	P		MAKE UP BIT, RUN IN HOLE AND TAGGED CMT.
	14:00 - 14:30	0.50	DRLSUR	02	F	P		DRILL 30 OF CMT.
	14:30 - 21:00	6.50	DRLSUR	02	B	P		DRILL F/105-T/318, WOB-11-18, SPP ON/OFF-423/1009, TORQUE ON/OFF- 2-0K, ROTORY RPM-40-60, MOTOR RPM-158, SPM-1160 , GPM-720, MW-9.0, VIS-37
	21:00 - 21:30	0.50	DRLSUR	09	A	P		WIRELINE SURVEY@ 260 - 2.5 DEG.
	21:30 - 22:00	0.50	DRLSUR	07	A	P		LEVEL DERRICK
	22:00 - 0:00	2.00	DRLSUR	02	A	P		DRLG F/318-T/ 368 , WOB 15 - 20, ROT 50 - 70, TORQUE OFF/ON 0-3K, SPM 160, MUD MTR.720 GPM - 158 RPM, TOP DRIVE 50 TO 70 RPM, SPP ON/OFF 1155/455
8/15/2008	0:00 - 0:30	0.50	DRLSUR	02	B	P		DRLG F/368-379 , WOB 15 - 20, ROT 50 - 70, TORQUE OFF/ON 1-3K, SPM 160, 720 GPM MOTOR RPM 115,, TOP DRIVE 50 TO 70 RPM, SPP ON/OFF 1155/950
	0:30 - 1:00	0.50	DRLSUR	07	A	P		INSPECT DERRICK AND TOP DRIVE. CHANGE OUT EXTENTION PORT ON GRABBER, TIE DOWN BOLTS ON CAP. (LOTS OF VIBRATION WHILE DRILLING SURFACE.
	1:00 - 5:30	4.50	DRLSUR	02	B	P		DRLG F/379-535 , WOB 15 - 20, ROT 50 - 70, TORQUE OFF/ON 1-3K, SPM 160, 720 GPM MOTOR RPM 115, TOP DRIVE 50 TO 70 RPM, SPP ON/OFF 1155/950
	5:30 - 6:30	1.00	DRLSUR	04	C	P		CIRC AND CLEAN HOLE, DROP SURVEY (MISS RUN ON SURVEY)
	6:30 - 9:00	2.50	DRLSUR	05	A	P		TRIP OUT, L/D 8" TOOLS. NO TIGHT SPOTS ON TRIP.
	9:00 - 12:00	3.00	DRLSUR	11	A	P		SAFETY METTING ON PICKING UP PIPE WITHOUT LAY DOWN MACHINE.RIG UP CASING EQUIPMENT
	12:00 - 14:30	2.50	DRLSUR	12	E	X		WAIT ON BACK UP TONGS FOR CASING.
	14:30 - 17:30	3.00	DRLSUR	11	B	P		MAKE UP SHOE AND RUN 13 JTS OF 10 3/4 32.75#, H-40 STC LAND AT 530' HAD TO PUMP IN 7 JTS. TO BTM. DO TO FLOATING AND CENTRI. DRAGGING IN HOLE AND NOT ENOUGH WT TO PUSH TO BTM.
	17:30 - 19:00	1.50	DRLSUR	04	E	P		CIRC AND RIG DOWN CSG. EQ.AND RIG UP CMT. EQ.
	19:00 - 20:00	1.00	DRLSUR	15	A	P		CMT WITH SUPERIOR AND CMT WITH. 350 SKS. CLASS G 15.6#, 1.18 YIELD, 5.20 GAL/SK, 22 BBLS BACK TO SURFACE BUMPED PLUG WITH 500 PSI OVER HELD FOR 5 MINS FLOATS HELD.
	20:00 - 0:00	4.00	DRLSUR	12	B	P		WAIT ON CMT.
8/16/2008	0:00 - 4:30	4.50	DRLIN1	18	A	P		REMOVE CMT HEAD, LIFT CONDUCTOR CUT HOLES IN CASING TO DRAIN, CUT OFF CASING AND L/D, CLEAN CELLAR TO WELD ON WELLHEAD. MAKE FINAL CUT ON CASING.
	4:30 - 7:00	2.50	DRLIN1	18	A	P		WELD ON WELLHEAD AND TEST TO 900 PSI AND HELD FOR 20 MIN. GOOD TEST.
	7:00 - 20:30	13.50	DRLIN1	13	A	P		INSTALL B SECTION AND NIPPLE UP BOPE
	20:30 - 0:00	3.50	DRLIN1	13	C	P		PRESSSSURE TEST BOPS

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H

Project: UTAH	Site: CARBON	Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008 End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
8/17/2008	0:00 - 3:00	3.00	DRLIN1	13	C	P		TEST BOPE 250 PSI FOR 5 MIN, 3000 PSI FOR 10 MIN, TEST CASING TO 1000 PSI FOR 30 MIN, TESTED ANNULAR 1750 PSI.
	3:00 - 4:00	1.00	DRLIN1	13	A	P		FINISH NIPPLE UP.
	4:00 - 4:30	0.50	DRLIN1	13	A	P		INSTALL WEAR BUSHING.
	4:30 - 7:00	2.50	DRLIN1	05	A	P		PICK UP BHA
	7:00 - 7:30	0.50	DRLIN1	18	A	P		TIGHTEN ROT. HEAD FLANGE
	7:30 - 8:00	0.50	DRLIN1	02	F	P		DRLG CMT, TAG CMT @ 476, FLOAT @ 483, SHOE@ 530
	8:00 - 11:30	3.50	DRLIN1	02	B	P		DRLG F/530' T/892', WOB 16K, RPM 48, TQ ON/OFF BTM 4/1, SPM #1 111, GPM 498, SPP ON/OFF BTM 986/878 RPM, MUD MTR RPM 79, ROP 30'
	11:30 - 12:00	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @ 823 X PULSE 4.1 DEG.
	12:00 - 16:30	4.50	DRLIN1	02	B	P		DRLG F/892 T/960, WOB 4K, RPM 65, TQ ON/OFF 1/1K, SPM #1 111, GPM 498, SPP ON/OFF BTM 986/930 PSI MUD MTR. 79 RPM ROP 30'
	16:30 - 17:00	0.50	DRLIN1	06		P		SERVICE RIG - CALIBRATE PASON WT
	17:00 - 22:00	5.00	DRLIN1	02	B	P		DRLG F/ 960 T/1054, WOB 6K, RPM 75, TQ ON/OFF 2/1, SPM #2 111, GPM 498, SPPON/OFF BTM 990/920 PSI, MUD MTR 79, ROP 30'
	22:00 - 22:30	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @ 964 4.0 DEG., XPULSE 3.7 DEG. AZ. 216.6
	22:30 - 0:00	1.50	DRLIN1	02	B	P		DRLG F/1054 T/1120', WOB 6K, RPM 75, TQ ON/OFF BTM 2/1K, SPM #2 111, GPM 498, SPP ON/OFF BTM 030/933 PSI, MUD MTR. 79,ROP 30'
8/18/2008	0:00 - 1:00	1.00	DRLIN1	02	B	P		DRLG F 1120 T 1150, WOB 6K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1030/933, MUD MTR RPM 79, ROP 30'
	1:00 - 1:30	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @ 1063 4.5 DEG.
	1:30 - 4:30	3.00	DRLIN1	02	B	P		DRLG F 1150 T 1245, WOB 6K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1030/933, MUD MTR RPM 79, ROP 30'
	4:30 - 5:00	0.50	DRLIN1	09	A			WIRELINE SURVEY @ 1157 3 1/4 DEG.
	5:00 - 7:30	2.50	DRLIN1	02	B	P		DRLG F 1245 T 1348 , WOB 6-10K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1047/982, MUD MTR RPM 79, ROP 41'
	7:30 - 8:00	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @1276 3.25 DEG. XPULSE 1256, 3.5 DEG 214.5 AZ.
	8:00 - 0:00	16.00	DRLIN1	02	B	P		DRLG F 1348 T 2025 , WOB 10-15K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1047/982, MUD MTR RPM 79, ROP 41'
8/19/2008	0:00 - 1:00	1.00	DRLIN1	02	B	P		DRLG F/2025 T/ 2100 , WOB 18K, RPM 75, TQ ON/OFF BTM 2/1, SPM #2 111, GPM 498, SPP ON/OFF 1450/1111, MUD MTR RPM 79,
	1:00 - 1:30	0.50	DRLIN1	06	A	P		SERVICE RIG
	1:30 - 8:00	6.50	DRLIN1	02	B	P		DRLG F/2100 T/2382 , WOB 15K, RPM 75, TQ ON/OFF BTM 4/1K, SPM #2 111, GPM 0N/OFF BTM 498, SPP ON/OFF BTM 1350/1200 PSI, MUD MTR 79 RPM, ROP 43.3'/HR

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	8:00 - 12:00	4.00	DRLIN1	02	B	P		DRLG F/2382-2477 , WOB 10K, RPM 75, TQ ON/OFF BTM 3/1K, SPM #2 111, GPM 0N/OFF BTM 498, SPP ON/OFF BTM 1250/1200 PSI, MUD MTR 79 RPM, ROP 23.7'/HR (ANGLE IS BUILDING TO 4.6 USE LIGHTER WT. TO DRILL WITH.)
	12:00 - 12:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	12:30 - 14:30	2.00	DRLIN1	04	D	X		LOST TOTAL CIRC. PUMP LCM PILLS, BUILD VOL. LOST 650 BBLS. POSSIBLE ZONE LOSS AT 2454 AND AT BTM OF 2477'
	14:30 - 20:00	5.50	DRLIN1	16	E	P		HAUL WATER AND FILL MUD TANKS, RESERVE PIT AND RIG TANKS MIX LCM PILLS.
	20:00 - 0:00	4.00	DRLIN1	02	B	P		DRLG F/2477 T/2557 , WOB 10K, RPM 65, TQ ON/OFF BTM 3/1K, SPM #2 78, 350 GPM , SPP ON/OFF BTM 890/ PSI, MUD MTR 58 RPM, ROP 25'/HR
8/20/2008	0:00 - 0:30	0.50	DRLIN1	02	B	P		DRLG F/2557 T/2561, WOB 10, RPM 60, TQ ON/OFF BTM 3/1, SPM #2 78, 350 GPM, SPP ON/OFF BTM 985/900, MUD MTR. 58 ROP 15' PER HR
	0:30 - 3:30	3.00	DRLIN1	04	D	P		RUN OUT OF FLUID, HAUL WATER FOR VOLUME
	3:30 - 10:30	7.00	DRLIN1	02	B			DRLG F/22561 T/2746 , WOB 10K, RPM 70, TQ ON/OFF BTM 3/1K, SPM #2 70, GPM 315, SPP ON/OFF BTM 675/650 PSI, MUD MTR 50 RPM, ROP 24.9/HR
	10:30 - 11:00	0.50	DRLIN1	04	D	P		WORK PIPE WHILE WAITING ON WATER
	11:00 - 16:00	5.00	DRLIN1	05	A	P		POOH, CHANGE OUT MUD MTR, MOVE REAMERS IN BHA. HAD 30K OVER PULL AT 2450 WORK THRU AND DID NOT SEE IT AGAIN.
	16:00 - 19:00	3.00	DRLIN1	05	A	P		TIH WITH NEW BHA
	19:00 - 20:30	1.50	DRLIN1	03	E	X		WASH & REAAM TIGHT SPOTS @ 2450 & 2746
	20:30 - 0:00	3.50	DRLIN1	02	B	P		DRLG F/2746 T/ 2780, WOB 10K, RPM 65, TQ ON/ OFF BTM 2/1, SPM #1 70, GPM 315, SPP ON/OFF 840/ 800, MUD MTR 50, ROP 25' PER HR
8/21/2008	0:00 - 0:30	0.50	DRLIN1	13	A	P		INSTALL ROTATING HEAD RUBBER
	0:30 - 3:00	2.50	DRLIN1	02	B	P		DRLG F/2780 T2821 WOB 10K, RPM 70, TQ ON/OFF BTM 3/1, SPM #1 70, 315 GPM, SPP ON/OFF BTM 926/850, MUD MTR 50 RPM, STARTED AIR JAMMERS @ 01:30 W/250 CFM, INCREASED TO 700 CFM, NO RETURN
	3:00 - 5:30	2.50	DRLIN1	04	D	X		WAITING ON WATER, WORKING PIPE
	5:30 - 6:00	0.50	DRLIN1	02	B	P		DRLG F/2821- 2840' WOB 10K, RPM 70, TQ ON/OFF BTM 3/1, SPM #1 70, 315 GPM, SPP ON/OFF BTM 926/850, MUD MTR 50 RPM, INCREASE TO 1000 CFM AND NO RETURNS.
	6:00 - 6:30	0.50	DRLIN1	04	D	X		SHUT DOWN PUMPS AND WORK PIPE 450 CFM
	6:30 - 7:00	0.50	DRLIN1	05	G	P		BLEED AIR PRESSURE & PULL 6 STD PIPE
	7:00 - 10:00	3.00	DRLIN1	04	D	P		TRIED TO GET RETURNS W/ 450, 700, 1000, 1600 CFMS. GOT AIR RETURNS NO FLUID, STAGE IN HOLE 3 STDS & REGAIN RETURNS W/ 1600 CFM & 135 PM WENT TO BOTTOM GOT CIRC W/ 450 GPM
	10:00 - 11:30	1.50	DRLIN1	02	B	P		DRLG F/ 2840 T/2865, WOB 5/10K, CFM 1250/1600, GPM 420/470, PUMP #2 60 SPM, M/M 145 RPM, RPM 70, SPP ON/OFF BTM 1340/650, TQ ON/OFF BTM 5/1
	11:30 - 12:00	0.50	DRLIN1	02	B	P		ESTABLISH RETURNS W/1600 CFM, 10 SPM, THEN WENT TO 1300 CFM, 50 SPM= 425 GPM

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	12:00 - 0:00	12.00	DRLIN1	02	B	P		DRLG F/2840 T/3365, WOB 5/10, CFM 1200/1600, GPM 454/515, M/M 72/82 RPM, SPM #1 60, RPM70
8/22/2008	0:00 - 7:00	7.00	DRLIN1	02	B	P		DRLG F/3365 T/3713, WOB 10, CFM 900/1600, GPM 270, TOTAL GPM WITH AIR 400/454, PUMP #2 60 SPM, M/M 70, RPM 70, SPP ON/OFF 1200/ 800, TQ ON/OFF 5/1
	7:00 - 7:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	7:30 - 10:30	3.00	DRLIN1	02	B	P		DRLG F/3713-3840, WOB 10, CFM 900/1600, GPM 270, TOTAL GPM WITH AIR 400/454, PUMP #2 60 SPM, M/M 70, RPM 70, SPP ON/OFF 1200/ 800, TQ ON/OFF 5/1
	10:30 - 11:00	0.50	DRLIN1	04	F	P		CIRC SAMPLES.
	11:00 - 13:30	2.50	DRLIN1	09	C	P		PULL 2STDS HELD SAFETY MTG WITH GYRO HAND, RIG UP AND RUN GYRO ON SURVEY LINE AND SURVEY F/3650' @100' INTERVALS TO SURFACE
	13:30 - 17:00	3.50	DRLIN1	05	B	P		TRIP OUT OF HOLE L/D XPULSE, MONEL,2-REAMERS, MOTOR AND BIT. FOR CORING.
	17:00 - 18:30	1.50	DRLIN1	07	B	P		CHANGE OUT SAVER SUB ON TOP DRIVE F/ 4 1/2 XH TO 4 1/2 IF CHANGE OUT ELEVATORS FROM 4 1/2 - 5"
	18:30 - 20:30	2.00	DRLIN1	05	A	P		PICK UP CORE BARREL & PRESSURE TEST SAME
	20:30 - 21:00	0.50	DRLIN1	05	A	P		RIG UP WEATHERFORD LAY DOWN MACHINE HELD SAFETY MEETING BEFORE PICKING UP 5" DP
	21:00 - 23:30	2.50	DRLIN1	05	A	P		PICK UP 6 1/2 DC & 5" DP
	23:30 - 0:00	0.50	DRLIN1	04	D	P		BREAK CIRC. WITH 150 CFM & 950 PSI, STROKED PUMP 50 SPM
8/23/2008	0:00 - 0:30	0.50	DRLIN1	04	A	P		FIL PIPE WITH AIR AND FLUID.
	0:30 - 2:30	2.00	DRLIN1	05	A	P		PICK UP 5" DRILL PIPE
	2:30 - 3:00	0.50	DRLIN1	04	A	P		DISPLACED HOLE WITH AIR, FOUND WASH OUT AND A TOTAL OF 3 BAD JTS.
	3:00 - 4:00	1.00	DRLIN1	05	A	S		LAYED DOWN 3 BAD JTS. AND REPLACE WITH 3 GOOD JTS.
	4:00 - 5:30	1.50	DRLIN1	04	A	P		CIRCULATE HOLE WITH AERIATED MUD, GETTING PARCIAL RETURNS, RIG UP WIRELINE
	5:30 - 7:00	1.50	DRLIN1	08	H	P		L/D 1 JT. DRILL PIPE & RIG UP WIRELINE TO RETRIEVE BIT INSERT, RUN BIT INSERT BACK IN HOLE
	7:00 - 8:00	1.00	DRLIN1	04	A	P		HELD SAFTEY MEETING W/ CORE HANDS, ESTABLISH RETURNS
	8:00 - 9:00	1.00	DRLIN1	08	H	P		CORE 24' PUMPING 750CFM @ 30 SPM W/ 430 PSI
	9:00 - 11:30	2.50	DRLIN1	08	H	S		ATTEMPT TO RETRIEVE 24' OF CORE W/ WIRELINE, ATEMPT FAILED, PUMP DOWN DRILL STRING & ATTEMPT TO RETRIEVE CORE AGAIN, ATTEMPT FAILED
	11:30 - 14:30	3.00	DRLIN1	05	A	S		TRIP OUT OF HOLE W/ CORE BARREL AND SAMPLE
	14:30 - 15:30	1.00	DRLIN1	05	B	S		CLEAN OUT SHALE F/ TOP OF CORE BARREL, CHANGE REAL ROD & CHECK BIT
	15:30 - 21:00	5.50	DRLIN1	05	A	P		TRIP IN HOLE TO DRILL NEXT CORE, LOOKING FOR A WASH IN DC'S & DP, WASH & REAM TIGHT SPOTS BETWEEN 2450 & 2900
	21:00 - 23:30	2.50	DRLIN1	04	D	P		TRY UNLOADING HOLE WITH AIR & MUD STRING PRESSURED UP,

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	23:30 - 0:00	0.50	DRLIN1	10	C	P		RIG UP WIRELINE TO PULL CORE BARREL, TOP OF CORE BARREL WAS COVERED UP
8/24/2008	0:00 - 2:30	2.50	DRLIN1	05	B	P		TOOH, PLUG CORE BARREL,
	2:30 - 5:00	2.50	DRLIN1	05	B	P		CORE BARREL PLUGGED WITH LCM, CLEAN OUT INTER BARREL, RUN ACTIVE SYSTEM OVER SHAKERS TO CLEAN MUD
	5:00 - 6:00	1.00	DRLIN1	05	A	P		TRIP IN HOLE WITH BHA & 4 STDS. OF DRILL PIPE, BREAK CIRCULATION
	6:00 - 6:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	6:30 - 11:30	5.00	DRLIN1	05	A	P		FINISH TRIP IN HOLE, REAM LAST 60' TO BOTTOM
	11:30 - 12:00	0.50	DRLIN1	02	A	P		DRILL F/ 3,864' T/ 3,920' 2-5K WOB, 1600 CFM & 20 SPM #1 PUMP = 336 GPM
	12:00 - 13:30	1.50	DRLIN1	08	H	P		RUN IN HOLE W/ WIRELINE, RETRIEVE BIT INSERT & REPLACE W/ CORE BARREL
	13:30 - 15:00	1.50	DRLIN1	08	H	P		ESTABLISH RETURNS, CORE #2 F/ 3,920' T/ 3,944' 7K WOB, 50 RPM'S PUMPING 1300 CFM & 10 SPM = 245 GPM
	15:00 - 16:30	1.50	DRLIN1	08	H	P		RUN IN HOLE WITH WIRELINE, RETRIEVE CORE BARREL RECOVERED 24' & REPLACE WITH NEW ONE
	16:30 - 18:00	1.50	DRLIN1	08	H	P		ESTABLISH RETURNS, CORE #3 F/ 3,944' T/ 3,968' 7K WOB, 50 RPM'S PUMPING 1300 CFM & 10 SPM = 245 GPM
	18:00 - 20:00	2.00	DRLIN1	08	H	P		RETRIEVE CORE & RECOVERED 13.7', RUN NEW BARREL IN HOLE
	20:00 - 21:00	1.00	DRLIN1	08	H	P		BRK CIRC. & CORE #4 F/ 3965 T/ 3973 WOB 10K, RPM 50 - 60, 1050 CFM, 30 SPM,780 PSI, 287 GPM CORE BARREL JAMMED
	21:00 - 22:30	1.50	DRLIN1	08	H	P		R/U WIRELINE & RETRIEVE CORE, RECOVERED 5.5', RUN CORE BARREL IN HOLE
	22:30 - 0:00	1.50	DRLIN1	08	H	P		BRK CIRC. & CORE F/ 3973 T/3978 WOB 4/10K, RPM 50, 1050 CFM, 30 SPM, 295 GPM,
8/25/2008	0:00 - 1:30	1.50	DRLIN1	08	H	P		CORING #5 F/3973 T/3997 WOB 4-8K RPM 50 CFM 1000 30 SPM PSI 570, GPM 285,
	1:30 - 3:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL, RECOVERED 11', 45%, RUN CORE BARREL BACK IN HOLE
	3:00 - 4:30	1.50	DRLIN1	08	H	P		CORING #6 F/3997-4020' WOB 4-8K RPM 50 CFM 800 25 SPM PSI 550, GPM 235, 50% RETURNS
	4:30 - 6:30	2.00	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL, RECOVERED 20.3 ', 88 % RUN CORE BARREL BACK IN HOLE
	6:30 - 8:30	2.00	DRLIN1	08	H	P		CORING #7 F/4020' T/4035, WOB 4-8K, RPM 50, DRILL WITH WATER ONLY 30 SPM, 135 GPM
	8:30 - 10:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL, RECOVERED 13.2', 88%
	10:00 - 13:00	3.00	DRLIN1	08	H	P		CORE #8 F/4035 T/4052', WOB 5-12, RPM 40, SPM 40/45 SPM, 179/202 GPM
	13:00 - 14:00	1.00	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL,RECOVERED 17.6, 103%
	14:00 - 18:00	4.00	DRLIN1	04	D	P		GOT RETURNS W/1600 CFM, 10 SPM, FILLED ALL SURFACE TANKS & RESERVE PIT
	18:00 - 18:30	0.50	DRLIN1	08	H	P		CORE #9 F/4052 T/4070', WOB 7-8K, RPM 49, PSI 27, SPM 40
	18:30 - 20:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL,RECOVERED 13.8, 76%
	20:00 - 21:00	1.00	DRLIN1	08	H	P		CORE #10, F/4070 T/4085 WOB 5-13, PSI 27/500, TQ 2/1, 45 RPM

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	21:00 - 22:30	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL,RECOVERED 0.0' 0%
	22:30 - 0:00	1.50	DRLIN1	05	A	P		TOOH FOR CORE BIT
8/26/2008	0:00 - 1:30	1.50	DRLIN1	05	A	P		TOOH FOR CORE BIT, CHANGE OUT CORE BITS,INSTALL INSERT BIT TO KEEP BARREL CLEAN
	1:30 - 4:00	2.50	DRLIN1	05	A	P		TIH TO CORE, HIT BRIDGE @ 2275
	4:00 - 6:00	2.00	DRLIN1	03	A	X		WASH & REAM F/2275 T/29
	6:00 - 8:00	2.00	DRLIN1	05	A	P		FINISH TRIP IN HOLE REAM 60' TO BTM
	8:00 - 8:30	0.50	DRLIN1	04	D	P		GOT RETURNS W/1800 CFM & 10 SPM
	8:30 - 10:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE INSERT BIT & RUN CORE BARREL
	10:00 - 11:00	1.00	DRLIN1	08	H	P		CORE #11 F/4066 T/4076 WOB 12, RPM 50 SPM 50
	11:00 - 11:30	0.50	DRLIN1	03	A	P		BACK REAM 15' TO PULL CORE BARREL
	11:30 - 13:30	2.00	DRLIN1	08	H	P		R/U WIRELINE, PULL CORE #11 RECOVERED 3' SANDSTONE
	13:30 - 19:00	5.50	DRLIN1	02	A	P		DRLG F/ 4076 T/ 4160 WOB 9 CFM 1100, GPM 350, PUMP#1 40 SPM, ON/OFF BTM 600/330
	19:00 - 20:00	1.00	DRLIN1	04	A	P		CIRC & CONDITION HOLE TO LAY DOWN 5" R/U LAYDOWN MACHINE HELD SAFETY MEETING WEATHERFORD
	20:00 - 22:30	2.50	DRLIN1	05	B	P		LAY DOWN 5" DP FRIST TO STD TIGHT
	22:30 - 23:00	0.50	DRLIN1	05	B	P		PULL ROTATING HEAD
	23:00 - 0:00	1.00	DRLIN1	05	B	P		LAY DOWN BHA
8/27/2008	0:00 - 1:30	1.50	DRLIN1	05	A	P		LAY DOWN DRILL 5" PIPE & COLLARS
	1:30 - 2:00	0.50	DRLIN1	05	A	P		RIG DOWN LAWDOWN MACHINE
	2:00 - 4:00	2.00	DRLIN1	08	A	P		R/U HALCO LOGGERS, HELD SAFETY MEETING, LOGGING, HIT BRIDGE @ 1960, FLUID LEVEL @ 1600'
	4:00 - 5:30	1.50	DRLIN1	08	A	X		HALCO PULL OUT OF HOLE , RIG DOWN
	5:30 - 7:00	1.50	DRLIN1	05	A	S		CHANGE OUT SAVER SUB ON TOP DRIVE,
	7:00 - 12:00	5.00	DRLIN1	05	F	P		Load out 5" coring DP. Strap and pickup 27 joints DP
	12:00 - 12:30	0.50	DRLIN1	06	A	P		Rig Service
	12:30 - 14:30	2.00	DRLIN1	07	B			Rig repair - hydraulic hose on lift cylinder fro grabber on top drive
	14:30 - 22:00	7.50	DRLIN1	03	A	X		Make up bit, bit sub, 1 DC and TIH w/ HWDP & DP, tagged bridge at 1960'. Ream through bridges at 1960', 2027', 2276'-2858'
	22:00 - 22:30	0.50	DRLIN1	05	F	X		TIH, tagged ledge/bridge at 3331'
	22:30 - 0:00	1.50	DRLIN1	03	A	X		Wash and ream 3331' - 3525' w/ 1400 scfm air and 90 gpm water
8/28/2008	4:00 - 7:00	3.00	DRLIN1	04	A	X		Circulate and condition hole for logs at 4160
	7:00 - 7:30	0.50	DRLIN1	08	F	P		Rig up Weatherford for slim hole logging. tool and log through DP. Loggers TD 4168'. Rig TD 4160'. No correction were made
	7:30 - 10:00	2.50	DRLIN1	08	F	P		Log well w/ Weatherford's slim hole Gamma Ray and collar locator log through DP. Loggers TD 4168'. Rig TD 4160'. No correction were made
	10:00 - 13:30	3.50	DRLIN1	05	C	P		TOOH w/ bit #6, LD 6.25" DC, bit & bit sub
	10:05 - 4:00		DRLIN1	03	E	X		Wash and ream 3331' - 4160', WOB 10K, AIR = 1400 SCFM, GPM = 90, PUMP #1 = 20 SPM, PUMP #2 = 0 SPM, 40 RPM, PRESS ON - OFF BTM = 350 PSI , TORQ ON - OFF BTM =5K - 12K, MUD WT = 8.4, VIS = 27

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	13:30 - 14:30	1.00	DRLIN1	05	C	X		TIH open ended for plugging operations, tagged bridge at 1960'
	14:30 - 15:00	0.50	DRLIN1	05	C	X		Hit bridge at 1960, tried to work through, unsuccessful, pickup and install rotating head
	15:00 - 22:30	7.50	DRLIN1	03	E	X		Wash and ream through bridges at 1960, 2020', 2323', 2430', 2510', and several others
	22:30 - 23:30	1.00	DRLIN1	05	F	X		TIH 3100' - 3400'
	23:30 - 23:30	0.00	DRLIN1	03	E	X		Continue to wash and ream through tight spot from 3400' - 3420'
8/29/2008	0:00 - 1:30	1.50	DRLIN1	03	E	X		Wash and ream 3400' - 3600', WOB 10K, AIR = 1400 SCFM, GPM = 90, PUMP #1 = 20 SPM, PUMP #2 = 0 SPM, 50 RPM, PRESS ON - OFF BTM = 350 PSI , TORQ ON - OFF BTM =5K - 8K, MUD WT = 8.4, VIS = 27
	1:30 - 2:30	1.00	DRLIN1	04	A	X		Circulate and condition hole w/ 1500 scfm airand 90 GPM water
	2:30 - 3:30	1.00	DRLIN1	04	A	X		HSM w/ Superior Cementers and rig up
	3:30 - 4:30	1.00	DRLIN1	15	E	P		Mix and pump 175 sack class "G" cement (29.2 Bbls) balance formation isolation plug from 3600' - 3300'
	4:30 - 5:00	0.50	DRLIN1	05	C	P		TOOH 3 stands to 3309'
	5:00 - 6:30	1.50	DRLIN1	04	A	P		Circulate at 3309' to clear excess cement from wellbore
	6:30 - 7:00	0.50	DRLIN1	15	E	P		Mix and pump 170 sack class "G" cement (28.4 Bbls) balance formation isolation plug from 3300' - 3000'
	7:00 - 7:30	0.50	DRLIN1	05	C	P		TOOH 8 stands to 2552'
	7:30 - 9:00	1.50	DRLIN1	04	A	P		Circulate and condition abd dump 5 gallons polyswell down drill pipe
	9:00 - 9:30	0.50	DRLIN1	15	E	P		Mix and pump 50 sack (18 bbls) Thix-O-Tropic cement to try *healing up loss circulation zone*
	9:30 - 14:30	5.00	DRLIN1	04	A	P		TOOH 4 stands to get above cement and circulate w/ 1200 scfm air and 90 GPM water
	14:30 - 15:00	0.50	DRLIN1	05	C	P		TIH to 2615' and did not tag any cement in well bore, pulled back to 2488'
	15:00 - 17:00	2.00	DRLIN1	04	A	P		Circulate w/ 1200 scfm air for 1 hour after circulate was acheived
	17:00 - 17:30	0.50	DRLIN1	15	E	P		Mix and pump 50 sacks (18 bbls) Thix-O-Tropic cement to try healing loss circulation zone
	17:30 - 18:00	0.50	DRLIN1	05	C	P		TOOH 6 stands to get above cement
	18:00 - 0:00	6.00	DRLIN1	12	B	P		Wait on cement to set at 1966'
8/30/2008	0:00 - 1:00	1.00	DRLIN1	12	B	X		Work pipe 1891' - 1986' while waiting on cement to set
	1:00 - 1:30	0.50	DRLIN1	05	C	X		TIH, tagged at 2506'
	1:30 - 3:30	2.00	DRLIN1	04	A	X		Blow hole dry w/ 1200 scfm air at 2488'
	3:30 - 4:00	0.50	DRLIN1	15	A	X		Mix and pump 100 sacks class "G" w/ .25 #/sk Superflake and 2% CaCl2, yeild 1.15, Water 5.0 gallons per sack
	4:00 - 4:30	0.50	DRLIN1	05	C	X		TOOH 6 stands to 1986'
	4:30 - 7:00	2.50	DRLIN1	12	B	X		Work pipe 1891' - 1986' while waiting on cement to set
	7:00 - 9:30	2.50	DRLIN1	05	C	X		TIH tagged at 2506', had to use air from 2320' - 2506'
	9:30 - 10:00	0.50	DRLIN1	04	A	X		Circulate while rigging down Superior cementing services
	10:00 - 11:30	1.50	DRLIN1	05	C	X		TOOH for directional tools. Laid down bottom joint of DP, pin and shoulder was well worn from working through bridges

Operation Summary Report

Well: BLACKHAWK A-5H

Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	11:30 - 13:00	1.50	DRLIN1	06	D	P		Cut drilling line
	13:00 - 13:30	0.50	DRLIN1	06	A	P		Rig Service
	13:30 - 14:30	1.00	DRLIN1	05	A	P		Lay down stand drill collars
	14:30 - 19:00	4.50	DRLIN1	05	A	P		Pickup and make up Weatherfords directional tools and TIH
	19:00 - 19:30	0.50	DRLIN1	05	A	P		Install rotating head
	19:30 - 20:00	0.50	DRLIN1	05	A	P		TIH, tagged bridge at 2200'
	20:00 - 0:00	4.00	DRLIN1	03	E	P		Wash and ream 2200' - 2506', WOB 5k - 10K, AIR = 1000 SCFM, GPM = 265, PUMP #1 = 82 SPM, PUMP #2 = 0 SPM, RPM = 40, PRESS ON - OFF BTM = 400 PSI , TORQ ON - OFF BTM =1K - 6K, MUD WT = 8.4, VIS = 27
8/31/2008	0:00 - 0:30	0.50	DRLIN1	05	H	X		Bit plugged, TOOH to un-plug
	0:30 - 1:00	0.50	DRLIN1	05	H	X		Pull rotating head
	1:00 - 1:30	0.50	DRLIN1	05	H	X		TOOH to monel DC
	1:30 - 3:30	2.00	DRLIN1	05	H	X		Un-plug bit and change out motors and scribe. Bit full of cement and shale
	3:30 - 4:30	1.00	DRLIN1	05	H	X		TIH
	4:30 - 5:00	0.50	DRLIN1	05	H	X		Install rotating head
	5:00 - 14:00	9.00	DRLIN1	03	E	X		Wash and ream 1836' - 2060', WOB 5k - 10K, AIR = 1000 SCFM, GPM = 180, PUMP #1 = 50 SPM, PUMP #2 = 0 SPM, RPM = 40, PRESS ON - OFF BTM = 350 PSI , TORQ ON - OFF BTM =1K - 4K, MUD WT = 8.4, VIS = 27 Tagged cement at 2697' - 3044'. Fell free from plug and tagged at 3700'
	14:00 - 16:00	2.00	DRLIN1	05	C	S		TOOH w/ directional tools
	16:00 - 19:30	3.50	DRLIN1	05	C	S		TIH open ended. Picked up bad joint from previous plugging job for bottom joint. Tagged at 3700' and fell through, went in to 3723', w/ 30k set down weight, it was sliding slowly down.
	19:30 - 20:00	0.50	DRLIN1	04	A	S		Attempted to break circulation, pipe pressured up. Plugged pipe, could not break loose.
	20:00 - 20:30	0.50	DRLIN1					
	20:30 - 21:30	1.00	DRLIN1	05	C	S		TOOH to un-plug pipe. Un-plug bottom joint of DP, had about 10' cement and shale in pipe. Pull rotating head
	21:30 - 22:00	0.50	DRLIN1	05	C	S		Clean rig floor
	22:00 - 23:30	1.50	DRLIN1	05	C	S		TIH to 3700'
	23:30 - 0:00	0.50	DRLIN1	04	A	S		Break circulation w/ air and circulate while rigging up cementers. Takes about 45 minutes to acheive circulation after sending air down hole
9/1/2008	0:00 - 1:30	1.50	DRLIN1	04	A	X		Circulate while rigging up cementers
	1:30 - 2:30	1.00	DRLIN1	15	A	X		Pump 175 sacks plug at 3714'
	2:30 - 3:30	1.00	DRLIN1	04		X		TOOH 6 stands and wash through pipe and continue to pull total of 14 stands
	3:30 - 7:30	4.00	DRLIN1	12	B	P		Wait on cement plug to set
	7:30 - 9:30	2.00	DRLIN1	05	C	P		TIH to tag cement. Driller created a birds nest in drilling line
	9:30 - 10:00	0.50	DRLIN1	06	A	S		Rig Service
	10:00 - 12:00	2.00	DRLIN1	07	A	S		Perform JSA do to drum back lash. Set top drive in slips and came down slowly, straighten drill line and then came uo to dock top drive in upper docking point
	12:00 - 12:30	0.50	DRLIN1	07	A	S		Stand 1 stand back in derrick to assist in calibrating top drive and draw works

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	12:30 - 14:30	2.00	DRLIN1	03	E	P		Continue to clean out to plug, tagged at 3246'
	14:30 - 15:00	0.50	DRLIN1	15	E	P		Pump 170 sack cement plug at 3246'
	15:00 - 17:30	2.50	DRLIN1	05	A	P		TOOH for directional tools
	17:30 - 18:00	0.50	DRLIN1	05	A	P		Pull rotating head
	18:00 - 18:30	0.50	DRLIN1	05	A	P		Inspect and lay down single joint of drill pipe and put extra bolts in flow meter
	18:30 - 20:00	1.50	DRLIN1	05	A	P		Make up bit, scribe mud motor, set MWD tool and TIH w/ directional tools
	20:00 - 20:30	0.50	DRLIN1	05	A	P		Install rotating head
	20:30 - 22:00	1.50	DRLIN1	05	A	P		TIH, tagged w/ 20k at 2659'.
	22:00 - 0:00	2.00	DRLIN1	02	E	P		Drill cemet 2559' - 2865', WOB 5k - 8K, AIR = 1000 SCFM, GPM = 320, PUMP #1 = 0 SPM, PUMP #2 = 70 SPM, RPM = 40, PRESS ON - OFF BTM = 450 PSI , TORQ ON - OFF BTM =3K - 2K, MUD WT = 8.3, VIS = 28, Footage = 206', FPH = 103
9/2/2008	0:00 - 1:30	1.50	DRLIN1	02	G	P		Drill cemet 2865' - 2992', WOB 5k - 8K, AIR = 1000 SCFM, GPM = 320, PUMP #1 = 0 SPM, PUMP #2 = 70 SPM, RPM = 40, PRESS ON - OFF BTM = 450 PSI , TORQ ON - OFF BTM =3K - 2K, MUD WT = 8.3, VIS = 28, Footage = 127', FPH = 84.67
	1:30 - 2:30	1.00	DRLIN1	02	G	P		Work pipe to get good MTF
	2:30 - 13:30	11.00	DRLIN1	02	D	P		Time Drill 2992' - 3045', WOB 2k - 3K, AIR = 1000 SCFM or 153 GPM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 450 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.3, VIS = 28, Footage = 53', FPH = 4.8
	13:30 - 14:00	0.50	DRLIN1	06	A	P		Rig Service
	14:00 - 0:00	10.00	DRLIN1	02	D	P		Time Drilling and sliding 3045' - 3099', WOB 5k - 10K, AIR = 1000 - 1100 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 309 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.7, VIS = 34, Footage = 53', FPH = 5.4
9/3/2008	0:00 - 6:30	6.50	DRLIN1	02	D	P		Slide Drilling 3099' - 3205', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 356 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.5, VIS = 34, Footage = 106', FPH = 16.3
	6:30 - 8:30	2.00	DRLIN1	02	D	P		Rotate Drilling 3205' - 3265', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 360 PSI , TORQ ON/OFF BTM =2-3K, MUD WT = 8.5, VIS = 34, Footage = 106', FPH = 16.3
	8:30 - 9:00	0.50	DRLIN1	02	D	P		Slide Drilling 3265' - 3297', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.5, VIS = 34, Footage = 32', FPH = 64
	9:00 - 11:00	2.00	DRLIN1	02	D	P		Rotate Drilling 3297' - 3391', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 360 PSI , TORQ ON/OFF BTM =2-3K, MUD WT = 8.5, VIS = 34, Footage = 94', FPH = 47

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	11:00 - 11:30	0.50	DRLIN1	02	D	P		Slide Drilling 3391' - 3405', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.5, VIS = 34, Footage = 14', FPH = 28
	11:30 - 13:30	2.00	DRLIN1	02	D	P		Rotate Drilling 3405' - 3486', WOB 3K - 8K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 360 PSI , TORQ ON/OFF BTM =2K - 4k, MUD WT = 8.5, VIS = 34, Footage = 81', FPH = 40.5
	13:30 - 14:00	0.50	DRLIN1	02	D	P		Slide Drilling 3486' - 3508', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 22', FPH = 44
	14:00 - 15:30	1.50	DRLIN1	02	D	P		Rotate Drilling 3508' - 3549', WOB 3K - 8K, AIR = 1100 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 396 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 41', FPH = 27.3
	15:30 - 17:00	1.50	DRLIN1	02	D	P		Slide Drilling 3549' - 3612', WOB 5-9K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 63', FPH = 42
	17:00 - 17:30	0.50	DRLIN1	06	A	P		Rig Service
	17:30 - 18:00	0.50	DRLIN1	02	D	P		Rotate Drilling 3612' - 3644', WOB 3K - 9K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 494-396 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 32', FPH = 64
	18:00 - 19:00	1.00	DRLIN1	02	D	P		Slide Drilling 3644' - 3676', WOB 20K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 353-297 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 31', FPH = 31
	19:00 - 20:30	1.50	DRLIN1	02	D	P		Rotate Drilling 3676' - 3739', WOB 6K - 15K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 396-342 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 63', FPH = 42
	20:30 - 22:00	1.50	DRLIN1	02	D	P		Slide Drilling 3739' - 3788', WOB 6-10K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 353-297 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 49', FPH = 32.6
	22:00 - 23:00	1.00	DRLIN1	02	D	P		Rotate Drilling 3788' - 3833', WOB 6-15K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 430-344 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 63', FPH = 42

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	23:00 - 0:00	1.00	DRLIN1	02	D	P		Slide Drilling 3833' - 3845', WOB 20K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 396-350 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 12', FPH = 12
9/4/2008	0:00 - 5:00	5.00	DRLIN1	02	D	P		Slide Drilling 3845' - 3967', WOB 5-15K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 396-350 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 122', FPH = 24.4
	5:00 - 6:30	1.50	DRLIN1	04	C	P		Circulate bottoms up
	6:30 - 7:30	1.00	DRLIN1	05	A	P		TOOH to 3967' - 2951' (10 stands)
	7:30 - 13:00	5.50	DRLIN1	08	F	P		Run Gamma Ray log from 2985' - 3280'
	13:00 - 15:30	2.50	DRLIN1	05	A	P		TOOH, pull rotating head
	15:30 - 18:00	2.50	DRLIN1	05	A	P		Change BHA. L/D NMDC, Gamma Ray, break bit
	18:00 - 18:30	0.50	DRLIN1	06	A	P		Rig Service
	18:30 - 0:00	5.50	DRLIN1	05	A	P		Make up bit, adjust bend in motor from 1.83 to 2.12 and scribe same. Pickup 3 DC and rack in derrick, TIH and pickup 6 DC. Install rotating head.
9/5/2008	0:00 - 1:30	1.50	DRLIN1	05	A	P		TIH, pickup total of 9 DC and install rotating head
	1:30 - 4:30	3.00	DRLIN1	04	D	P		Fill pipe and break circulation, had to increase air to 1600 scfm. As soon as we started getting circulation one of the air compressors went down
	4:30 - 9:00	4.50	DRLIN1	03	E	S		Wash and ream 20' to bottom. Continue to work toward bottom w/ 1000 scfm air and 105 gpm. Attempt to slide at 3967', unseccessful, wait on ruck to change out compressors
	9:00 - 11:30	2.50	DRLIN1	02	D	P		Slide Drilling 3967' - 4011', WOB 5-15K, AIR = 1600 SCFM, GPM = 225, PUMP #1 = 0 SPM, PUMP #2 = 50 SPM, RPM = 0, MOTOR RPM = 117, PRESS ON - OFF BTM = 268 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 44', FPH = 17.6
	11:30 - 12:00	0.50	DRLIN1	02	D	P		Rotate Drilling 4011' - 4018', WOB 20K - 25K, AIR = 1600 SCFM, GPM = 225, PUMP #1 = 0 SPM, PUMP #2 = 50 SPM, RPM = 40, MOTOR RPM = 117, PRESS ON-OFF BTM = 550-488 PSI , TORQ ON/OFF BTM =6-2K, MUD WT = 8.5, VIS = 35, Footage = 7', FPH = 14
	12:00 - 13:00	1.00	DRLIN1	02	D	P		Slide Drilling 4018' - 4020', WOB 5-65K, AIR = 1200-1600 SCFM, GPM = 225-292, PUMP #1 = 0 SPM, PUMP #2 = 50-65 SPM, RPM = 0, MOTOR RPM = 133, PRESS ON - OFF BTM = 4/4-268 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 4', FPH = 4
	13:00 - 13:30	0.50	DRLIN1	02	D	P		Rotate Drilling 4020' - 4028', WOB 25K - 75K, AIR = 1200 SCFM, GPM = 292, PUMP #1 = 0 SPM, PUMP #2 = 65-75 SPM, RPM = 35, MOTOR RPM = 133, PRESS ON-OFF BTM = 488-404 PSI , TORQ ON/OFF BTM =9-2K, MUD WT = 8.5, VIS = 35, Footage = 8', FPH = 16. Hard spot would not slide w/ 75k WOB
	13:30 - 14:00	0.50	DRLIN1	09	D	P		Circulate and directional survey

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	14:00 - 22:00	8.00	DRLIN1	02	D	P		Slide Drilling 4028' - 4082', WOB 5-70K, AIR = 1000 SCFM, GPM = 342, PUMP #1 = 0 SPM, PUMP #2 = 80 SPM, RPM = 0, MOTOR RPM = 138, PRESS ON - OFF BTM = 460-382 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 54', FPH = 6.75
	22:00 - 0:00	2.00	DRLIN1	04	C	P		Circulate hole prior to trip
9/6/2008	0:00 - 4:00	4.00	DRLIN1	05	A	S		TOOH, pull rotating head, LD NMDC and break bit
	4:00 - 4:30	0.50	DRLIN1	05	A	S		Monitor well, gas bubble excaping and let it vent
	4:30 - 5:00	0.50	DRLIN1	05	A	S		L/D Mud motor and NMDC, set MWD tools in v-door
	5:00 - 20:30	15.50	DRLIN1	12	E	S		Wait on directional tools
	20:30 - 23:00	2.50	DRLIN1	05	A	P		Pickup mud motor w/ 2.6 degree bend make up bit re-run #7, make up MWD tools and scribe, install MWD survey tool, pickup flex NMDC and make up
	23:00 - 23:30	0.50	DRLIN1	07	A	S		Repair hose on ST-80
	23:30 - 0:00	0.50	DRLIN1	05	A	P		TIH slow due to 2.6 bend hanging up on wall
9/7/2008	0:00 - 3:00	3.00	DRLIN1	05	A	P		TIH, slow due to bit hanging up on wall, tagged 40' fill
	3:00 - 4:00	1.00	DRLIN1	04	A	P		Break circulation, wash and ream 40' to bottom
	4:00 - 9:30	5.50	DRLIN1	02	D	P		Drilling sliding 4082' - 4155', WOB 18-25K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 139, PRESS ON - OFF BTM = 584 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 73', FPH = 13.3
	9:30 - 10:30	1.00	DRLIN1	04	C	P		Circulate and condition hole for trip
	10:30 - 11:00	0.50	DRLIN1	05	A	P		TOOH, tight at 4075', just above sharp bend, acts like coal sloughing in
	11:00 - 12:30	1.50	DRLIN1	05	A	S		Work tight hole 4075' - 4035', establish circulation while working tight hole
	12:30 - 14:30	2.00	DRLIN1	05	A	P		TOOH to change BHA
	14:30 - 15:30	1.00	DRLIN1	05	A	P		Break NMDC and mouse hole. Drain Motor and adjust motor to 2.12 degrees
	15:30 - 16:00	0.50	DRLIN1	05	A	P		Orient and scribe motor
	16:00 - 16:30	0.50	DRLIN1	06	A	P		Rig Service
	16:30 - 20:00	3.50	DRLIN1	05	A	P		TIH to 4077', install rotating head
	20:00 - 22:30	2.50	DRLIN1	03	D	P		Break circulation, wash and ream 4077' to
	22:30 - 23:00	0.50	DRLIN1	02	D	P		Drilli rotating 4155' - 4165', WOB 40K, AIR = 1800 SCFM, GPM = 243, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 700-500 PSI , TORQ ON/OFF BTM =4-2K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	23:00 - 0:00	1.00	DRLIN1	02	D	P		Drilling sliding 4165' - 4180', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 500-300 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 15', FPH = 15
9/8/2008	0:00 - 0:30	0.50	DRLIN1	02	D	P		Drilling sliding 4180' - 4186', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 500-300 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 15', FPH = 15

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	0:30 - 1:00	0.50	DRLIN1	02	D	P		Drilling rotating 4186' - 4196', WOB 25K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 535-512 PSI , TORQ ON/OFF BTM =8-3K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	1:00 - 3:00	2.00	DRLIN1	02	D	P		Drilling sliding 4196' - 4220', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 24', FPH = 12
	3:00 - 3:30	0.50	DRLIN1	02	D	P		Drilling rotating 4220' - 4230', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 522-512 PSI , TORQ ON/OFF BTM =8-3K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	3:30 - 5:00	1.50	DRLIN1	02	D	P		Drilling sliding 4230' - 4250', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 20', FPH = 13.3
	5:00 - 5:30	0.50	DRLIN1	02	D	P		Drilling rotating 4250' - 4260', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 522-512 PSI , TORQ ON/OFF BTM =8-3K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	5:30 - 7:00	1.50	DRLIN1	02	D	P		Drilling sliding 4260' - 4296', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 36', FPH = 24
	7:00 - 8:30	1.50	DRLIN1	02	D	P		Drilling rotating 4296' - 4311', WOB 25K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage = 15', FPH = 10
	8:30 - 11:00	2.50	DRLIN1	02	D	P		Drilling sliding 4311' - 4325', WOB 25-50K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 14', FPH = 5.6
	11:00 - 15:30	4.50	DRLIN1	02	D	P		Drilling rotating 4325' - 4362', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 27, MOTOR RPM = 145, PRESS ON - OFF BTM = 582-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage = 37', FPH = 8.22, Run 3 directional surveys, Ream 4285' - 4340' before and after survey. Tried to pull up to 4323', tight pulled up to 190k, 35k over pickup weight. String weight Pickup 155k, Slack off 109k, Rotating 131k
	15:30 - 16:00	0.50	DRLIN1	03	B	S		Ream and back ream 4270' - 4362' to help control deviation
	16:00 - 16:30	0.50	DRLIN1	06	A	P		Rig Service

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	16:30 - 0:00	7.50	DRLIN1	02	D	P		Drilling rotating 4362' - 4457', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 27, MOTOR RPM = 145, PRESS ON - OFF BTM = 582-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage =141', FPH = 18.8
9/9/2008	0:00 - 3:30	3.50	DRLIN1	02	D	P		Drilling rotating 4457' - 4503', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 27, MOTOR RPM = 145, PRESS ON - OFF BTM = 582-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage =141', FPH = 18.8
	3:30 - 5:00	1.50	DRLIN1	04	C	P		Circulate and condition hole
	5:00 - 5:30	0.50	DRLIN1	05	E	P		TOOH, tight at 4396'
	5:30 - 11:00	5.50	DRLIN1	05	E	P		Work tight hole at 4349', 4331', 4321', 4256', 4246', 4239' and 4172'. Work through tight spot while establishing circulation w/ air and mud. Returns were heavy w/ coal chunks 1/8" size and shale chunks up 1 1/2" x 1" size
	11:00 - 11:30	0.50	DRLIN1			S		Line up and check air jet line and verify suction. Pull rotating head
	11:30 - 12:00	0.50	DRLIN1	06	A	P		Rig service. Change hydraulic hose on ST-80
	12:00 - 13:00	1.00	DRLIN1	05	A	P		TOOH
	13:00 - 15:30	2.50	DRLIN1	05	A	P		Break bit, L/D directional tools
	15:30 - 18:00	2.50	DRLIN1	05	F	P		Makeup BHA as follows: Bit, bit sub, 1 - 6 1/2 DC, stabilizer, 2 - 6 1/2" DC and push pipe
	18:00 - 20:30	2.50	DRLIN1	06	D	P		Cut Drilling Line
	20:30 - 0:00	3.50	DRLIN1	05	F	P		TIH (SLM), Install rotating head, tagged bridge at 4065'. Air hands is having trouble getting booster running
9/10/2008	0:00 - 20:30	20.50	DRLIN1	12	E	P		W.O./ AIR BOOSTER & INSTALL NEW BOOSTER
	20:30 - 21:30	1.00	DRLIN1	07	A	X		REPLACE HYDRALIC HOSE ON IRON ROUGHNECK BROKE ON FIRST STD
	21:30 - 0:00	2.50	DRLIN1	05	F	P		TRIP IN HOLE TO REAM ALL TIGHT SPOTS INSTALL ROTATING HEADTAG @ 4058
9/11/2008	0:00 - 12:00	12.00	DRLIN1	03	A	P		REAMING F/4058 T/4503 WITH 1600 TO 1750 CFM, 20 SPM 336 - 359 GPM, 25 -50 RPM TORQUE 3-10K, WOB 5 -20K, TIGHT @ 4089, 4105, 4129, 4203, 4251
	12:00 - 12:30	0.50	DRLIN1	04	G	P		CIRC AND PUMP HIGH VIS SWEEP.
	12:30 - 14:00	1.50	DRLIN1	05	E	P		WIPER TRIP AND BACK REAM 4328, 4279, 4267 AND 4259
	14:00 - 17:00	3.00	DRLIN1	03	A	P		REAMING F/4058 T/4503 WITH 1600 TO 1750 CFM, 20 SPM 336 - 359 GPM, 25 -50 RPM TORQUE 3-10K, WOB 5 -20K, TIGHT @ 4089, 4105, 4129, 4203, 4251
	17:00 - 19:30	2.50	DRLIN1	05	E			WIPER TRIP & BACK REAM F/4503 T/ 4058
	19:30 - 22:30	3.00	DRLIN1	03	A			REAMING F/4058 T/4503 WITH 1600 TO 1750 CFM, 20 SPM 336 - 359 GPM, 25 -50 RPM TORQUE 3-10K, WOB 5 -20K, TIGHT @ 4089, 4105, 4129, 4203, 4251
	22:30 - 0:00	1.50	DRLIN1	05	E			WIPER TRIP & BACK REAM F/4503 T/ 4058
9/12/2008	0:00 - 0:30	0.50	DRLIN1	05	E	P		4 STD WIPER TRIP F/ 4503 T/ 4058
	0:30 - 1:00	0.50	DRLIN1	04	C			CIRC. & COND. HOLE FOR 7" CSG
	1:00 - 10:00	9.00	DRLIN1	05	D			PULL 10 STD & LAY DOWN DP TO RUN 7" CSG PULL WEAR BUSHING, CHANGE BAILS AND ELEVATORS.

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	10:00 - 12:00	2.00	DRLIN1	11	A	P		HELD SAFETY MTG WITH CASING CREWS AND RIGGED CASING EQUIPMENT.
	12:00 - 0:00	12.00	DRLIN1	11	B	P		RUN 7" 23# J-55 LTC, WORKING CSG. THROUGH TIGHT HOLE @ 4058 TO 4170
9/13/2008	-		DRLIN1	13	C	P		
	0:00 - 3:30	3.50	DRLIN1	11	B	P		RUN 7" 23# J 55 LTC , WORKING TIGHT HOLE F/4170 T/ 4490.
	3:30 - 7:00	3.50	DRLIN1	04	A	P		CIRC HOLE TO CEMENT, RIG DOWN WEATHERFORD CASERS, HELD SAFETY MEETING W/SUPERIOR CEMENTERS & RIG UP CEMENTERS
	7:00 - 9:30	2.50	DRLIN1	15	A	P		CEMENT (FIRST STAGE) WITH 10 BBLS WATER, 30 BBLS REACTIVE SPACER, 10 BBLS WATER, 430 SKS CEMENT, DROP PLUG @ 08:30, DISPLACE W/120 BBLS PUMP LOST PRIME ON THE DISPL AND SWITCHED TO MUD IN THAT TIME THE CMT SET UP.STILL HAD 55 BBLS OF DISPL TO PUMP = 1399' OF CMT IN PIPE. DO HAVE 37 BBLS OF CMT ON THE OUTSIDE = 1380' DROPPED DV OPENING TOOL @ 09:05, LANDED 7" CSG ON HANGER @ 09:20
	9:30 - 12:30	3.00	DRLIN1	04	A	P		CIRC. THROUGH DV TOOL 700 CFM 108 GPM, 20 SPM 90 GPM TOTAL 197 GPM
	12:30 - 15:00	2.50	DRLIN1	15	A	P		SAFETY MEETING W/SUPERIOR CEMENTERS, CEMENT (SECOND STAGE) W/10 BBLS WATER, 30 BBLS REACTIVE SPACER, 10 BBLS WATER, 550 SK CEMENT, DROPPED PLUG @ 14:10, DISPLACED W/84 BBLS WATER, BUMPED PLUG @ 3500 PSI FLOAT HELD DV TOOL CLOSED, NO CEMENT TO SURFACE
	15:00 - 16:00	1.00	DRLIN1	15	A	P		WASH & FLUSH STACK & FLOWLINE, RIG DOWN CEMENTERS.
	16:00 - 18:00	2.00	DRLIN1	13	A	P		REMOVE CIRC. SWEDGE, L/D LANDING JT., RIG UP FMC, SET PACK OFF TOOL, TEST 7" CSG @ WELLHEAD T/3000 PSI FOR 15 MINS, L/D PACK OFF TOOL & TEST JT. L/D 4.5 DP OUT OF DERRICK.
	18:00 - 18:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	18:30 - 20:00	1.50	DRLIN1	07	A	X		REPAIR HYDRAULIC HOSE ON IRON ROUGHNECK
	20:00 - 0:00	4.00	DRLIN1	13	A	P		L/D DP, CHANGE OUT BAILS & ELEVATORS, CHANGE OUT 7" RAMS TO 2 7/8" RAMS, CHANGE OUT 5" RAMS TO 5 1/2" RAMS
9/14/2008	0:00 - 2:00	2.00	DRLIN1	13	C	P		CHANGING 7" RAMS TO 2 7/8" RAMS & 5" RAMS TO TO 5 1/2" RAMS
	2:00 - 8:00	6.00	DRLIN1	12	F	X		WAIT ON BOP HAND FOR RENTAL BOPS, SLIDE PLATE ON RAM CRACKED & BENT, UNABLE TO CHANGE RAMS.
	8:00 - 9:30	1.50	DRLIN1	13	D	X		PULLED CYLINDER FROM BOPE AND INSPECT AND FOUND CRACK AND IT WAS BENT. CAN NOT FIND ANOTHER CYLINDER.
	9:30 - 12:30	3.00	DRLIN1	12	F	X		WAIT ON WELDER TO COME AND REPAIR RAM CYLINDER.
	12:30 - 14:30	2.00	DRLIN1	13	D	X		WELD AND REPAIR RAM CYLINDER AND LET COOL.
	14:30 - 19:00	4.50	DRLIN1	13	C	P		PRESSURE TEST BOPs 2 7/8 RAM, 4 1/2, BLIND RAMS, BOP VALVES, CHOKE MANIFOLD TO 3000# HIGH, 250# LOW. ANNULAR TO 1900# HIGH, 250# LOW

ROCKIES

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Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	19:00 - 22:00	3.00	DRLIN1	05	A	P		STRAPING BHA, RIG UP PICK UP MACHINE, ATTEMPT TO PICK UP BHA, WRONG ELEVATORS, COULDN'T LATCH ELEVATORS
	22:00 - 0:00	2.00	DRLIN1	12	E	X		WAIT ON ELEVATORS, FOR PICKING UP BHA THE ELEVATORS WAS 3 1/4 AND COLLARS ARE 3 1/8"
9/15/2008	0:00 - 2:30	2.50	DRLIN1	12	E	X		WAIT ON ELEVATORS FOR BHA
	2:30 - 8:30	6.00	DRLIN1	05	A	P		PICKING UP BHA & DP TAG CEMENT @ 2136 RIG DOWN LAYDOWN MACHINE
	8:30 - 9:00	0.50	DRLIN1	04	A	P		CIRC. & COND. HOLE
	9:00 - 11:00	2.00	DRLIN1	02	F	P		DRLG CEMENT & DV TOOL F/2136 T/2156
	11:00 - 12:00	1.00	DRLIN1	05	A	P		TIH F/2177 T/2406' TAG CEMENT STRINGER
	12:00 - 16:30	4.50	DRLIN1	03	E	P		WASH & REAM F/2406 T/2412 TIH 2412-2430 WASH AND REAM F/2430-2453
	16:30 - 18:00	1.50	DRLIN1	05	G	X		L/D STAND IN MOUSE HOLE TIGHTEN TOP CONN THAT WAS LEAKING. TRIPPED OUT 7 STDS AND CHECKED EVERY CONN AND RETIGHTEN CONNECTIONS AND TRIP BACK IN.
	18:00 - 19:30	1.50	DRLIN1	02	F	P		DRLG F/2453 T/ 2454 WOB 2-5K, RPM 60, MP #2 33 SPM, 148 GPM, 965 TO 1008, TORQUE ON/OFF 3/12K
	19:30 - 23:00	3.50	DRLIN1	05	H	X		POOH, LOST WEIGHT & PUMP PRESSURE, (HAD BACKED OFF 8 DC DOWN)
	23:00 - 0:00	1.00	DRLIN1	05	H	P		TIH TO TRY & SCREW INTO FISH @ 998
9/16/2008	0:00 - 2:00	2.00	DRLIN1	05	H	P		TIH TO SCREW INTO FISH @ 998
	2:00 - 9:00	7.00	DRLIN1	05	H	P		SCREWED INTO FISH TOH BREAK EVERY DC & CHECK THE TREADS DOPE & RE-TORQUE
	9:00 - 12:00	3.00	DRLIN1	05	G	P		L/D BAD COLLARS RE-RACK PIPE IN DERRICK
	12:00 - 12:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	12:30 - 16:00	3.50	DRLIN1	11	A	P		PREPARED 5 1/2 CSG
	16:00 - 18:00	2.00	DRLIN1	05	H	P		LOADING OUT ROLLER REAMERS, CLEANING UP LOCATION
	18:00 - 20:30	2.50	DRLIN1	12	E	P		WAITING ON 4 3/4 DC & 3 1/2 DP. MOVING 2 7/8 DP TO LOCATION
	20:30 - 0:00	3.50	DRLIN1	12	E	P		UNLOAD MUD MTRS, DC & DP STRAP & CALIPER
9/17/2008	0:00 - 0:30	0.50	DRLIN1	05	A	P		CHANGE OUT ELEVATORS, GET RENTAL EQUIPMENT ON FLOOR
	0:30 - 10:30	10.00	DRLIN1	05	A	P		PICK UP MUD MTR, 4 3/4 DC, 3 1/2 DP TO 2452
	10:30 - 13:00	2.50	DRLIN1	02	F	P		DRLG CEMENT F/2452 TO 2470, WOB 15/17, #2 SPM 55, GPM 248
	13:00 - 14:30	1.50	DRLIN1	05	A	P		PICK UP PIPE TO 3104
	14:30 - 17:30	3.00	DRLIN1	02	F	P		DRLG CEMENT F/3104 T/3476, WOB 15/17, #2 SPM 55,GPM 248
	17:30 - 18:00	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	18:00 - 0:00	6.00	DRLIN1	02	F			DRLG CEMENT F/3476 T/3923 WOB 15/17, #2 PUMP SPM 55, GPM 248.
9/18/2008	0:00 - 8:00	8.00	DRLIN1	02	F	P		DRLG F/3923 T/ , WOB 16, #2 PUMP SPM 55, GPM 248. SPP 1340, RPM TD 50, RPM MM 138 TOTAL RPM 188. ROP 80 TO105 ROP
	8:00 - 10:00	2.00	DRLIN1	11	C	P		ATTEMPT TO PRESSURE TEST CSG TO 1500 PSI. PRESSURED UP TO 500 PSI & BLED OFF WHEN KICKED OUT
	10:00 - 13:00	3.00	DRLIN1	05	K	P		TOH FOR TEST PLUG LOST ONE CONE ON BIT. IT HAS BEEN GONE FOR AWHILE.
	13:00 - 13:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG

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	13:30 - 18:00	4.50	DRLIN1	05	K	P		TIH WITH TEST PLUG, TESTING EVERY 5 STDS, LAST TEST @ 2106 PRESSURE HELD.
	18:00 - 20:00	2.00	DRLIN1	05	I	P		TOH TEST PLUG WOULDN'T GO THROUGH DV TOOL.
	20:00 - 23:00	3.00	DRLIN1	08	B	P		RIG UP WIRELINE TRUCK & RUN BOND LOG W/PHOENIX SURVEYS
	23:00 - 0:00	1.00	DRLIN1	12	E	P		WAITING FOR STRING MILLS W/GRACO
9/19/2008	0:00 - 5:30	5.50	DRLIN1	05	I	P		TIH WITH 6 1/8 SRING MILL TO REAM TIGHT SPOTS @ DV TOOL @ 2154 & CSG, @ 2275,2458
	5:30 - 7:00	1.50	DRLIN1	05	K	P		TOH FOR TEST PLUG
	7:00 - 12:30	5.50	DRLIN1	05	A	P		MAKE UP CUP PACKER, TIH TO DV TOOL @ 2150, COULDN'T GET PAST 2183, TESTED THERE TO 1000 PSI
	12:30 - 14:00	1.50	DRLIN1	05	A	P		TOH FOR STRING MILL
	14:00 - 14:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	14:30 - 18:30	4.00	DRLIN1	07	A	Z		DRAWORKS #2 MODULE IN THE VFD IS DOWN
	18:30 - 20:30	2.00	DRLIN1	05	A	P		TOH TO LAY DOWWN CUP PACKER, PICK UP BIT & STRING MILL
	20:30 - 0:00	3.50	DRLIN1	07	A	P		REPLACE #2 MODULE IN THE VFD, DYNAMIC BRAKE ISN'T WORKING RIGHT IT WILL COAST UP AS WELL AS DOWN 4 TO 5 FT. WITH NO WEIGHT, TROUBLE SHOOTING SYSTEM.
9/20/2008	0:00 - 11:30	11.50	DRLIN1	07	A	Z		#2 MODULE IN THE VFD WAS REPLACED BUT THE DYNAMIC BRAKE ISN'T WORKING PROPERLY. TROUBLE SHOOTING SYSTEM, TOP DRIVE CONTINUES TO MOVE AFTER SHUT DOWN MAKING IT UNSAFE. WAIT ON OMRON TECH.
	11:30 - 17:00	5.50	DRLIN1	05	B	P		PICK UP HALCO RTTS TOOL, TIH TO 2440 TEST UP GOOD, 2480 TEST UP BAD, 2480 TEST DOWN GOOD, TEST @ 2445 GOOD, TEST @ 2449 BAD, HOLE IS BETWEEN 2445 & 2449.
	17:00 - 18:00	1.00	DRLIN1	05	K	P		TOH TO LAY DOWN HALCO RTTS TOOL
	18:00 - 19:30	1.50	DRLIN1	05	C	P		TIH TO 2388 OPEN ENDED TO SET CEMENT PLUG.
	19:30 - 21:00	1.50	DRLIN1	06	D	P		SLIP & CUT DRLG LINE RECALIBRATE BLOCKS
	21:00 - 0:00	3.00	DRLIN1	12	F	P		CIRC. HOLE OUT WHILE WAITING FOR CEMENTERS
9/21/2008	0:00 - 5:30	5.50	DRLIN1	12	F	P		WAIT ON CEMENTERS TO SET CEMENT PLUG
	5:30 - 7:30	2.00	DRLIN1	15	B	P		HELD SAFETY MTG. RIG UP CEMENTERS TO SET 100 SK CEMENT PLUG
	7:30 - 8:00	0.50	DRLIN1	15	B	P		PUMPED 100 SKS OF CLASS G 15.8# 21 BBLS DISPLACE 17.7 BBLS OF WATER
	8:00 - 13:00	5.00	DRLIN1	12	B	P		PULLED 2 STDS. TO 2156 CIRC HOLE CLEAN. AFTER 3 HRS. RAN BACK TO 2388 TAGGED SOFT CMT. PICKED UP CIRC PIPE CLEAN AND WAITED UNTIL 13:00 AND TAGGED GOOD CMT AT 2403' SET 20K ON IT AND HELD.
	13:00 - 14:00	1.00	DRLIN1	05	C	P		TRIP OUT OF HOLE.
	14:00 - 14:30	0.50	DRLIN1	15	B	P		RIG DOWN CMT EQUIPMENT.
	14:30 - 15:00	0.50	DRLIN1	06	A	P		RIG SERVICE
	15:00 - 16:30	1.50	DRLIN1	05		P		PICK UP MUD MOTOR AND BIT AND TRIP IN TO 2388'
	16:30 - 20:00	3.50	DRLIN1	12	B	P		WAIT ON CMT.

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	20:00 - 21:00	1.00	DRLIN1	02	F	P		TAG CEMENT STRINGER @ 2407 & 2459, DRILLED STRINGES OUT, CIRC. OUT CEMENT, ATTEMPT TO PRESSURE TEST. PRESSURED UP TO 975 PSI AT A GRADUAL INCREASE BUT PLUG BROKE DOWN. PRESSURE THEN DECREASED RAPIDLY.
	21:00 - 23:00	2.00	DRLIN1	05	A	P		TOH WITH BIT & COLLARS & STAND BACK
	23:00 - 0:00	1.00	DRLIN1	05	A	P		TIH OPEN ENDED WITH CEMENT STRING.25 STDS DP TO 2388
9/22/2008	0:00 - 16:00	16.00	DRLIN1	12	E	P		WAITING ON CEMENT EQUIPMENT, UNABLE TO LOCATE CEMENT PUMP TRUCK, ALL CEMENTING COMPANYS ARE BUSY
	16:00 - 17:00	1.00	DRLIN1	15	B	P		RIG UP CEMENTERS, HELD SAFETY MEETING
	17:00 - 17:30	0.50	DRLIN1	08	B	P		CHECK INJECTION RATE, CSG PRESSURED UP TO 800 PSI HELD FOR 20 MIN LOST 8 PSI
	17:30 - 18:30	1.00	DRLIN1	05	A	P		TOH TO PICK UP BIT & BHA
	18:30 - 22:00	3.50	DRLIN1	05	A	P		TRIP IN HOLE WITH BIT & BHA
	22:00 - 0:00	2.00	DRLIN1	02	F	P		DRILL CEMENT,FLOAT, CEMENT. WOB 15K, RPM 60, SPM 50, SPP 755, GPM 225
9/23/2008	0:00 - 6:00	6.00	DRLIN1	02	F	P		DRLG CEMENT & SHOE
	6:00 - 7:00	1.00	DRLIN1	11	A	P		RIG UP LAY DOWN MACHINE
	7:00 - 12:00	5.00	DRLIN1	05	D	P		L/D 3 1/2 DRILL PIPE AND BHA.
	12:00 - 14:30	2.50	DRLIN1	11	A	X		HELD SAFETY MTG WITH CASING CREWS AND RIG UP. (DID NOT BRING BACK UP TONGS AND COLLAR CLAMP SAID THEY HAD THEM AND IT WAS NOT ON TRUCK) RIG DOWN AND RELEASED CSG. EQUIPMENT. BERNARD CASING SERVICE.
	14:30 - 17:00	2.50	DRLIN1	12	E	X		WAITING ON CASING CREWS AND EQUIPMENT.
	17:00 - 17:30	0.50	DRLIN1	06	A	P		RIG SERVICE.
	17:30 - 18:00	0.50	DRLIN1	12	E	P		WAITING ON CASING CREWS AND EQUIPMENT.
	18:00 - 19:30	1.50	DRLIN1	11	A	P		HELD SAFETY MTG. AND RIG UP CASING EQUIPMENT.
	19:30 - 0:00	4.50	DRLIN1	11	B	P		RUN 5 1/2", 17# J-55 ULTRA-FLUSH JOINTS LEFT HAND THREAD. STARTED TO GET HOLE DRAG AT 2426' AND IT WAS THAT WAY FOR 5 JTS. DRAGGED ABOUT 20-25K DOWN.
9/24/2008	0:00 - 1:30	1.50	DRLIN1	11	B	P		RUN 104 JTS. 5.5 17# J 55 ULTRA FLUSH CSG.TO 4481
	1:30 - 2:00	0.50	DRLIN1	11	A	P		RIG DOWN CASERS
	2:00 - 5:30	3.50	DRLPRO	18	A	P		PICK UP STACK, SET SLIPS W/70K, CUT OFF CSG
	5:30 - 11:00	5.50	DRLPRO	13	A	P		NIPPLE UP STACK
	11:00 - 11:30	0.50	DRLPRO	13	C	P		Pickup and make up testing tools
	11:30 - 12:30	1.00	DRLPRO	13	C	P		Pressure test BOPE to 250 low 5 minutes, 3000 high 10 minutes. Wittnessed by Walton Wilis w/ BLM
	12:30 - 13:00	0.50	DRLPRO	06	A	P		Rig Service
	13:00 - 16:30	3.50	DRLPRO	05	A	P		Make up directional tools
	16:30 - 17:00	0.50	DRLPRO	05	A	P		Rig up Weatherfords pickup machine
	17:00 - 20:30	3.50	DRLPRO	05	A	P		Pickup 2 7/8" drill pipe. Using Weatherford hydraulic tongs for make, torque 4600
	20:30 - 21:00	0.50	DRLPRO	05	A	P		Rig down Weatherfords pickup machine
	21:00 - 23:00	2.00	DRLPRO	05	A	P		TIH and strap drill string in derrick

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	23:00 - 23:30	0.50	DRLPRO	05	A	S		Check drill pipe count, making sure drill string is correct
	23:30 - 0:00	0.50	DRLPRO	05	A	P		Install rotating head
9/25/2008	0:00 - 2:00	2.00	DRLPRO	04	A	P		Attempt to displace casing w/ air
	2:00 - 6:00	4.00	DRLPRO	02	D	P		DRILL FROM 4503' TO 4532' - Actual depth was 4472' - 4501'
	6:00 - 11:00	5.00	DRLPRO	05	A	P		TRIP OUT OF HOLE
	11:00 - 12:00	1.00	DRLPRO	12	A	P		WAITING ON ORDERS
	12:00 - 13:00	1.00	DRLPRO	05	A	P		LAYING DOWN DIRECTIONAL TOOLS
	13:00 - 13:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	13:30 - 15:30	2.00	DRLPRO	12	E	P		WAITING ON NEW BIT
	15:30 - 17:30	2.00	DRLPRO	05	A	P		MAKE UP BIT & TRIP IN HOLE TO 2000'
	17:30 - 18:00	0.50	DRLPRO	04	H	P		UNLOADED HOLE WITH 800 CFM AT 2000'
	18:00 - 21:00	3.00	DRLPRO	05	A	P		TRIPPING IN HOLE TO 4998'
	21:00 - 0:00	3.00	DRLPRO	04	H	P		UNLOADING HOLE W/ 1000 SCFM AIR
9/26/2008	0:00 - 0:30	0.50	DRLPRO	04	H	P		Unload hole w/ air down drill pipe and blow dry. Establish air injection down parasite string
	0:30 - 3:30	3.00	DRLPRO	02	D	P		Work past junk at 4498' several time and drill 4503' - 4517'. Pickup above 4498' and could not make it back to bottom
	3:30 - 9:00	5.50	DRLPRO	05	A	X		TOOH to check bit and pickup mill and junk sub
	9:00 - 9:30	0.50	DRLPRO	06	A	P		Rig Service
	9:30 - 11:00	1.50	DRLPRO	05	A	X		HSM about picking up fishing tools and pickup milling BHA
	11:00 - 15:30	4.50	DRLPRO	05	A	X		TIH w/ milling BHA. Unload hole at 3000'. TIH, tagged at 4495'
	15:30 - 16:00	0.50	DRLPRO	04	H	X		Unload hole w/ mill at 4493' and air going down drill pipe
	16:00 - 16:30	0.50	DRLPRO	04	H	X		Establish circulation w/ air going down parasite string and fluid going down drill pipe
	16:30 - 0:00	7.50	DRLPRO	16	A	X		Mill on junk 4490' - 4503'
9/27/2008	0:00 - 3:00	3.00	DRLPRO	05	A	X		TOOH slow, change elevators as needed. Visualy inspect connection, found 2 connection w/ 1/2" gap, tighten. Had trouble breaking tool joints due to over torque. From 4481' to 3500' had 6k drag
	3:00 - 3:30	0.50	DRLPRO	05	A	X		Pull rotating head
	3:30 - 4:00	0.50	DRLPRO	05	A	X		TOOH
	4:00 - 6:00	2.00	DRLPRO	05	A	X		Break mill and junk basket and empty. Found flat steal shavings , m/u new mill & basket & T.I.H.
	6:00 - 12:00	6.00	DRLPRO	05	A	X		TIH, installed rotating head, unloaded hole 3040' & 4480' W/ 1000 SCFM air
	12:00 - 13:00	1.00	DRLPRO	04	H	X		Establish circulation w/ air going down parasite string and fluid going down drill pipe
	13:00 - 15:30	2.50	DRLPRO	16	A	X		Mill on junk, tag @ 4495' work down to 4516'
	15:30 - 18:00	2.50	DRLPRO	16	B	X		Work Stuck Pipe
	18:00 - 0:00	6.00	DRLPRO	16	B	X		Work Stuck Pipe @ 4516' trying various things to free up pipe
9/28/2008	0:00 - 5:00	5.00	DRLPRO	12	F	X		Wait on backoff wireline unit and fishing tools
	5:00 - 9:30	4.50	DRLPRO	16	B	X		HSM w/ DCT Wireline crew and rig up to free point and back off. Had to change rope scokett for 1" tools.
	9:30 - 11:00	1.50	DRLPRO	16	B	X		RIH w/ 1" free point tools, had to pump 5 - 25 SPM to help get tools to bottom
	11:00 - 12:00	1.00	DRLPRO	16	B	X		Laid down free point tools and pickup back off tools

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	12:00 - 14:00	2.00	DRLPRO	16	B	X		Pull backoff tools and rig down DCT Wireline. Install mouse hole and prep to TOOH
	14:00 - 14:30	0.50	DRLPRO	16	B	X		RIH w/ back off tools and back off at 4442'. Fish left in hole: Mill, junk basket, bit sub, xo sub, xo sub, 2 joints DP. Total length 74.45'. Top of fish at 4442'
	14:30 - 15:00	0.50	DRLPRO	12	E	X		Wait on Weatherford to get engine for power tongs running
	15:00 - 17:30	2.50	DRLPRO	16	A	X		TOOH to pickup fishing tools
	17:30 - 18:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	18:00 - 18:30	0.50	DRLPRO	06	A	P		INSPECTED DERRICK
	18:30 - 19:00	0.50	DRLPRO	05	A	X		P/U & M/U OVERSHOT, BUMPER SUB, JAR AND T.I.H. TO TOP OF FISH 4442'
	19:00 - 20:30	1.50	DRLPRO	05	A	X		T.I.H.
	20:30 - 21:00	0.50	DRLPRO	05	A	X		INSTALL R/T HEAD
	21:00 - 0:00	3.00	DRLPRO	05	A	X		T.I.H. CK. TQ.
9/29/2008	0:00 - 0:30	0.50	DRLPRO	05	A	X		TIH w/ overshot
	0:30 - 8:00	7.50	DRLPRO	16	A	X		Work overshot over fish and jar on fish start setting jars off at 140k and increasing to 155k
	8:00 - 12:00	4.00	DRLPRO	05	A	X		TOOH w/ fish, drag 4442' - 2966'
	12:00 - 14:00	2.00	DRLPRO	16	A	X		Recovered fish. Lay down fish
	14:00 - 15:30	1.50	DRLPRO	16	A	X		Pickup reverse circulating junk basket. Check float and cleaned out, it was full of metal cuttings, recovered 2 pounds of metal
	15:30 - 16:00	0.50	DRLPRO	06	A	P		Rig Service
	16:00 - 16:30	0.50	DRLPRO	06	A	X		Inspect derrck and top drive after jarring. Found bent hydraulic fitting to IBOP, changed out
	16:30 - 20:00	3.50	DRLPRO	05	A	X		TIH w/ reverse circulating junk basket. Change elevator as needed to straighten drill pipe and drill collar up
	20:00 - 20:30	0.50	DRLPRO	05	A	X		Install rotating head
	20:30 - 22:00	1.50	DRLPRO	16	A	X		Make up top drive and break circulation w/ 20 spm at 4497'. Setting down on some junk, tried to work past junk, not successful
	22:00 - 23:30	1.50	DRLPRO	05	A	X		TOOH 50 DC. change elevators over to drill pipe
	23:30 - 0:00	0.50	DRLPRO	05	A	X		Pull rotating head
9/30/2008	0:00 - 0:30	0.50	DRLPRO	05	A	X		Pull rotating head
	0:30 - 1:30	1.00	DRLPRO	05	A	X		TOOH, lay down reverse circulation junk basket. Make up mill, watermelon mill and junk basket. Clean floor
	1:30 - 2:00	0.50	DRLPRO	12	E	X		Work on Weatherford's hydraulic power tongs, had to change out
	2:00 - 3:30	1.50	DRLPRO	05	A	X		TIH, SLM
	3:30 - 4:00	0.50	DRLPRO	05	A	X		Install rotating head
	4:00 - 5:30	1.50	DRLPRO	05	A	X		Change elevators to DC's and continue to TIH, SLM
	5:30 - 6:00	0.50	DRLPRO	04	A	X		Establish circulation
	6:00 - 13:00	7.00	DRLPRO	16	A	X		Mill 4495'-4497' WOB 2-8K, RPM 65-75, SPM 36-42, GPM 116-135, Torq 1-3K. Hard milling 4508' - 4510'
	13:00 - 14:00	1.00	DRLPRO	12	E	X		Work on Weatherford's hydraulic power tongs
	14:00 - 19:30	5.50	DRLPRO	05	A	X		TOOH, break mill & junk basket and inspect. Visually inspect connection, found 1 connection that had about 1/2" gap.
	19:30 - 0:00	4.50	DRLPRO	05	A	X		Make up new mill, trip in hole, retorque every connection, connections were at recommended torque.

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
10/1/2008	0:00 - 0:30	0.50	DRLPRO	05	A	X		Finish TIH, checking every connection's torque
	0:30 - 9:00	8.50	DRLPRO	16	A	X		Mill on junk 4510' - 4515' WOB 3-11, RPM 75-85, Pump #1 42-48 SPM, 135-155 GPM, Pressure 1530-2025, Torq 1-3K. Worked hole 2 time from 4495' - 4515' and one time to 4513'. Pulled back to 4490 and worked down to 4500' could not get deeper.
	9:00 - 13:00	4.00	DRLPRO	05	A	X		TOOH, L/D Kelly XO sub. Visually check breaks. Break off mill and junk basket
	13:00 - 13:30	0.50	DRLPRO	06	A	P		Rig Service
	13:30 - 15:00	1.50	DRLPRO	07	A	S		Power down PLC's. Power down rig to change breaker in VFD house
	15:00 - 17:00	2.00	DRLPRO	05	A	X		Finish laying down milling tools and rig down Weatherford power tongs
	17:00 - 20:00	3.00	DRLPRO	13	A	X		Prep to lay down 5 1/2" casing. Break BOP at wellhead. Rig down flow line - Pick up BOP
	20:00 - 22:00	2.00	DRLPRO	16	A	X		Make up spear & grappler - Spear into 5 1/2 casing - Pull up and remove casing slips - 115k to pull pipe - Pull up to 1st casing connection - set slips & collar clamp
	22:00 - 0:00	2.00	DRLPRO	13	A	X		Nipple up BOP & rig up flow line
10/2/2008	0:00 - 1:00	1.00	DRLPRO	13	A	X		Nipple up BOP & flow line
	1:00 - 4:00	3.00	DRLPRO	11	A	X		HSM and rig up Frank's Westates casing crew's power tongs, elevators, backup tongs, spot HPU and rig up hydraulic lines. Back out 1 joint of casing and set in mouse hole. Laid down joint of casing and fishing tools
	4:00 - 4:30	0.50	DRLPRO	05		X		Re-arrange 18 stands of 2 7/8" drill pipe in derrick to furnish adequate spacing for lay down machine trough
	4:30 - 6:00	1.50	DRLPRO	11	A	X		HSM w/ Frank's Westates crew and rig up casing crew and lay down machine, change bail and elevators
	6:00 - 7:30	1.50	DRLPRO	11	B	X		HSM w/ Frank's Westates casing crew and lay down 10 joints 5 1/2" casing
	7:30 - 12:00	4.50	DRLPRO	13	C	X		HSM w/ Single Jack, pickup test tools and 1 joint 4 1/2" DP. Make up test tools and run in hole, attempt to test and could not get good seal. Open BOP door and found a piece of metal 3 1/4" Wide x 10" Long. Attempt to test again and did not get good seal, pull test plug out and checked XO sub OD, it was the OD was larger than the 7" casing ID. Lay down test plug. Contacted Walt Wills w/ BLM and received verbal approvel on laying down 5 1/2" casing w/o pressure testing BOP
	12:00 - 18:30	6.50	DRLPRO	11	B	X		Lay down 5 1/2" casing, 30k drag until we were above 2400', no drag above 2400'. Rig down casing crew and change out elevator and bails. ESTIMATED 8.08 OF CASING
	18:30 - 20:30	2.00	DRLPRO	13	C	X		HSM w/ Single Jack, rig up tester, fill stack and test 2 7/8" ram door seal, 4 1/2" rams, seal between rams and "B" section of wellhead, inside kill, inside choke manifold valve and upper kelly valve to 250 psi for 5 minutes and 3000 psi for 1 minutes, all held. Rig down Single Jack Testers
	20:30 - 21:30	1.00	DRLPRO	16	A	X		Rig up Slaugh fishing milling and fishing tools. Pick up mill, & jars. Strap 3 1/2 drill pipe & pick up 3 1/2 slips & elevators

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	21:30 - 0:00	2.50	DRLPRO	05	A	X		HSM w/ Frank's Lay down crew. Pick up 3 1/2 drill pipe. Picked up 68 jts, 2154' in hole, tagged up around the DV tool. Started reaming through DV tool at 2154' at midnight
10/3/2008	0:00 - 5:00	5.00	DRLPRO	16	A	X		Pickup back up tongs, make up XO sub on top drive. Wash, ream and or mill 2159' - 2591'
	5:00 - 9:00	4.00	DRLPRO	16	A	X		TIH from 2591' - 4259'
	9:00 - 9:30	0.50	DRLPRO	16	A	X		Rig down pickup machine
	9:30 - 11:30	2.00	DRLPRO	16	A	X		Ream 4259' - 4502', pushing something down ahead of mill
	11:30 - 13:00	1.50	DRLPRO	16	A	X		Mill on junk 4502' - 4504'. Stalled out picked up dragging, pulled up to casing and stuck mill in 7" casing shoe
	13:00 - 16:30	3.50	DRLPRO	16	A	X		Stuck at casing shoe. Jarring on mill trying to free up
	16:30 - 0:00	7.50	DRLPRO	16	A	X		Milling on 5 1/2" casing that was left in hole when 5 1/2 casing was pulled, working mill between 4489' - 4504'. Approximately 8.08' long
10/4/2008	0:00 - 2:00	2.00	DRLPRO	16	A	X		Milling on 5 1/2" casing junk 4489' - 4503'. Returns were heavy w/ metal filing. Worked mill in to casing
	2:00 - 7:30	5.50	DRLPRO	16	A	X		TOOH, in the process of milling on junk we backed off the skirt off junk sub and had two chunks of 5 1/2" casing wedged between skirt and junk sub body. Junk sub was damaged so no extra iron was recovered. NOTE: LAID DOWN 2 JOINTS DRILL PIPE ONE HAD BIG RING GROOVES AROUND THE TUBE, THE OTHER ONE HAD SMALL RIG GROOVES AROUND TUBE. DEPTH IN HOLE WAS 4228' - 4291'
	7:30 - 9:00	1.50	DRLPRO	16	A	X		Laid down fishing jars, strap, caliper and pickup drilling jars
	9:00 - 9:30	0.50	DRLPRO	06	A	X		Rig service and inspect coupler between drawworks and traction motor
	9:30 - 15:00	5.50	DRLPRO	16	A	X		TIH w/ mill, bit sub, 1 joint drill pipe, drilling jars, tagged at 2495', 4275' and 4503'. Ream 4275' - 4503'
	15:00 - 0:00	9.00	DRLPRO	16	A	X		Milling on junk 4503' - WOB 1-5k, RPM 110, SPM 85, GPM 258, Max torque set at 7. Torque while milling = 3000-6000ft/lbs. @ 2330 hrs running 10k on mill & torque falling off to 2500-2800ft/lbs.
10/5/2008	0:00 - 4:30	4.50	DRLPRO	16	A	X		Trip out w/ mill. Tight coming up through casing from 4300' to 3900'. Pulling 30-40k over normal drag wt. Mill was cut approx. 2" up beyond cut right into mill body to approx 5 1/4" od. Original mill od was 6 1/8"
	4:30 - 5:00	0.50	DRLPRO	16	A	X		Break out mill. Pick up new mill, junk basket, & bit sub
	5:00 - 8:30	3.50	DRLPRO	16	A	X		Trip in hole w/ mill. Tagged something @ 2475' & 4512'
	8:30 - 11:30	3.00	DRLPRO	16	A	X		Mill from 4512' to 4516'
	11:30 - 14:00	2.50	DRLPRO	16	A	X		Trip out mll. Tight from 4261' to 3900'. Pulled 60k over @ 4261' and 30-40k over normal drag wt. Had a little bobble coming through 2475'
	14:00 - 15:00	1.00	DRLPRO	16	A	X		Trip in hole w/ new mill. Tagged something @ 2245'
	15:00 - 17:00	2.00	DRLPRO	16	A	X		Ream down from 2245' to 2532'. Not making any more hole @ 2532'
	17:00 - 18:30	1.50	DRLPRO	16	A	X		Trip out to check mill. Break off mill. Mill wore on center & heel. Approx. 2 1/2" wear pattern dead center of mill. Visible 3/4" wear pattern in center of 2 1/2" wear pattern

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:30 - 19:00	0.50	DRLPRO	06	A	P		Lubricate rig
	19:00 - 20:30	1.50	DRLPRO	06	D	P		Slip & cut 74' drilling line
	20:30 - 21:30	1.00	DRLPRO	16	A	X		Clear off all used mills from floor. Make up new mill. Trip in hole 5 stds
	21:30 - 22:00	0.50	DRLPRO	07	A	Z		Repair rig. Encoder mismatch on rig. Troubleshoot rig. Reset PLC cards & caliberate drawworks
	22:00 - 23:00	1.00	DRLPRO	16	A	X		Trip in hole to 2532'. Tag something @ 2532'.
	23:00 - 23:30	0.50	DRLPRO	16	A	X		Lay out 1 jt drill pipe. Install crossover sub. Change out 3 1/2 rental elevators.
	23:30 - 0:00	0.50	DRLPRO	16	A	X		Tag junk & begin reaming @ 2532'. 1-3k on bit. Pumping 315 gpm @ 750 psi. 1000-3000ft/lbs torque on top drive.
10/6/2008	0:00 - 0:30	0.50	DRLPRO	16	A	X		Tagged at 2533' - 2535', mill through tight spot w/ WOB 2, RPM 100, Pump #2 70 SPM, GPM 315, Torque 1, SPP 748
	0:30 - 2:30	2.00	DRLPRO	16	A	X		TIH
	2:30 - 7:00	4.50	DRLPRO	16	A	X		Mill 4491' - 4518', WOB 2, RPM 100, Pump #2 70 SPM, GPM 315, Torque 2-5k, PSI 1442
	7:00 - 11:00	4.00	DRLPRO	05	A	X		TOOH, laid down 2 joints, tight 4490' - 3900' drag 40k, 3900' - 2480' drag 20k. Break out mill and junk basket. Recovered 1 chunk iron 1/2" to 3/4" wide by 1 1/2" long, it was stuck in mill
	11:00 - 11:30	0.50	DRLPRO	06	A	P		Rig Service
	11:30 - 14:00	2.50	DRLPRO	05	A	X		Make up mill #6, junk basket, 1 - jt drill pipe, drilling jars, xo sub, junk basket, xo sub and TIH w/ remainder of drill string
	14:00 - 16:00	2.00	DRLPRO	05	A	X		Work through tight spots at 2160', 2316', 2410', 2471'. Wash and ream 2160' - 2480'
	16:00 - 17:30	1.50	DRLPRO	05	A	X		TIH
	17:30 - 18:00	0.50	DRLPRO	03	E	X		Wash and ream 4301' - 4310'
	18:00 - 19:00	1.00	DRLPRO	05	A	X		Finsh tripping in hole. Tripping slow taking 15-30k going in hole from 4310' to 4506'
	19:00 - 22:00	3.00	DRLPRO	16	A	X		Mill from 4506' to 4519.6'. Start out milling w/ 1/4k on mill. Pumping 315 gpm. 100 rpm on top drive. 2000-4000 ft/lbs torque. At 2100 hrs. running 15k on mill w/ 3500-4000 ft/lbs of torque - not making any progress. Pump high vis sweep around.
	22:00 - 0:00	2.00	DRLPRO	05	A	X		Trip out w/ mill. 30-40k overpull from 4300' to 4000'. 10-20k overpull from 4000' to 3300'.
10/7/2008	0:00 - 1:30	1.50	DRLPRO	05	A	X		TOOH w/ mill #6
	1:30 - 2:30	1.00	DRLPRO	05	A	X		Break out & clean junk baskets. Laid down mill and pickup magnet run #1
	2:30 - 5:00	2.50	DRLPRO	05	A	X		TIH w/ magnet run #1, tagged at 4518'
	5:00 - 5:30	0.50	DRLPRO	16	A	X		Work magnet 4490' - 4519'
	5:30 - 9:00	3.50	DRLPRO	05	A	X		TOOH w/ magnet run #1. Break off magnet and junk basket and clean same. Recovered fair amount of junk
	9:00 - 12:00	3.00	DRLPRO	05	A	X		Make up magnet and junk baskets and TIH w/ magnet run #2, tagged bridges at 2472' & 3428'
	12:00 - 13:00	1.00	DRLPRO	16	A	X		Work magnet and junk subs 4490' - 4519'
	13:00 - 15:30	2.50	DRLPRO	05	A	X		TOOH w/ magnet run #2. Break off magnet & junk baskets and clean. No tight spots on trip out
	15:30 - 16:00	0.50	DRLPRO	06	A	P		Rig Service
	16:00 - 18:30	2.50	DRLPRO	07	A	P		Dock top drive and power down PLC's, swap electrical wires on generators, power up PLC's, un-dock top drive. Align traction motors on draw works

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:30 - 19:00	0.50	DRLPRO	05	A	X		Pickup magnet and junk subs
	19:00 - 21:00	2.00	DRLPRO	05	A	X		TIH w/ magnet run #3
	21:00 - 22:30	1.50	DRLPRO	16	A	X		Work magnet and junk baskets from 4519' - 4434'
	22:30 - 0:00	1.50	DRLPRO	05	A	X		TOOH w/ magnet run #3
10/8/2008	0:00 - 1:00	1.00	DRLIN1	16	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	1:00 - 4:30	3.50	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, RUN # 5
	4:30 - 5:30	1.00	DRLIN1	16	A	P		WORK MAGNET & JUNK BASKETS F/4343 T/4519, RPM 50, SPM 75, PSI 2140, GPM 336
	5:30 - 9:00	3.50	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	9:00 - 12:00	3.00	DRLIN1	05	A	P		MAKE UP MAGNET, 1 JT DP, DBL PIN, JUNK BASKET, BIT SUB, JARS, DBL. PIN, 2 JUNK BASKETS, BIT SUB, TIH, (BRIDGE @ 3497)
	12:00 - 13:00	1.00	DRLIN1	04	A	P		WORK MAGNET & JUNK BASKETS F/4343 T/4519, RPM 50, SPM 75, PSI 2140, GPM 33
	13:00 - 15:30	2.50	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	15:30 - 18:00	2.50	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, RUN #6
	18:00 - 19:00	1.00	DRLIN1	16	A	P		WORK MAGNET & JUNK BASKETS F/4343 T/4519, RPM 50, SPM 75, PSI 2140, GPM 338
	19:00 - 21:00	2.00	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	21:00 - 22:00	1.00	DRLIN1	05	A	P		REPLACE SHOE ON MAGNET, MAKE UP JUNK BASKETS
	22:00 - 0:00	2.00	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, RUN #7
10/9/2008	0:00 - 1:00	1.00	DRLIN1	16	A	P		WORKING MAGNET & JUNK SUBS, F/4460 T/4519, RPM 50, SPM 75, PSI 2140, GPM 338
	1:00 - 2:30	1.50	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS
	2:30 - 4:00	1.50	DRLIN1	05	A	P		LAY DOWN JUNK BASKETS & CLEAN, PICK BACK UP JUNK BASKETS & MAGNET. RETRIEVED 8# OF IRON ON RUN #7
	4:00 - 6:00	2.00	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, STRING TOOK WT. @ 2534. RUN #8
	6:00 - 7:00	1.00	DRLIN1	16	A	P		WORKING MAGNET & JUNK SUBS, F/4460 T/4519, RPM 50, SPM 75, PSI 2140, GPM 338
	7:00 - 10:00	3.00	DRLIN1	05	A	P		LAY DOWN JUNK BASKETS & CLEAN, PICK BACK UP JUNK BASKETS & MAGNET. RETRIEVED 3# OF IRON ON RUN #8
	10:00 - 11:00	1.00	DRLIN1	05	A	P		L/D FISHING TOOLS
	11:00 - 11:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	11:30 - 19:30	8.00	DRLIN1	05	A	P		MAKE UP NEW BHA W/ TO DRILL RATHOLE & TIH
	19:30 - 21:30	2.00	DRLIN1	09	D	P		RAN GAMMA SURVEY F/4380 T/4519
	21:30 - 22:00	0.50	DRLIN1	16	A	P		WORKING JUNK BASKETS ON BOTTOM BEFORE DRILLING
	22:00 - 0:00	2.00	DRLIN1	02	C	P		DRLG F/4519 T/4528, WOB 16K, RPM 60, SPP 1765, GPM 338
10/10/2008	0:00 - 10:00	10.00	DRLPRO	02	C	P		DRLG F/4528 T/ WOB 16K, RPM 60, SPM 75, SPP 1765, GPM 338
	10:00 - 11:00	1.00	DRLPRO	04	A	P		CIRC. & CONDD. HOLE @ 4565 WORKING JUNK BASKETS
	11:00 - 13:30	2.50	DRLPRO	05	D	P		TOH TO RUN PARASITE STRING
	13:30 - 16:00	2.50	DRLPRO	05	A	P		LAY DOWN DIR. TOOLS & REST OF BHA
	16:00 - 18:00	2.00	DRLPRO	11	A	P		HSM WITH CASERS L/D MACHINE, & RIG UP TO RUN PARASITE STRING

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO	11	A	P		HSM WITH CASERS & L/D MACHINE, RUN 5 1/2 17# CSG. PARASITE STRING
10/11/2008	0:00 - 3:00	3.00	DRLIN1	11	B	P		RUNNING 5 1/2 17# PARASITE STRING 100 JTS LANDED @ 4279 PACKED OFF, TESTED
	3:00 - 4:00	1.00	DRLIN1	11	A	P		RIG DOWN L/D MACHINE & CSG EQUIPMENT
	4:00 - 6:00	2.00	DRLIN1	06	D	P		SLIP & CUT DRILLING LINE, CALIBRATE TOP DRIVE, CHANGE ELEVATOR BAILS & ELEVATORS, CHANGE OIL IN TOP DRIVE
	6:00 - 6:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	6:30 - 14:30	8.00	DRLIN1	05	A	P		PICK UP DIRECTIONAL TOOLS AND AJUST MOTOR TO 1.37 DEG. TRIP IN HOLE SLOW DUE TO WIND.
	14:30 - 15:00	0.50	DRLIN1	04	G	P		DISPLACE HOLE WITH AIR DOWN DP WITH 1500 CFM AT 2404'
	15:00 - 17:30	2.50	DRLIN1	05	A	P		TRIP IN HOLE SLOW. PUT 30 STDS BELOW DC AND RAN 16 STDS DC ON TOP.
	17:30 - 18:30	1.00	DRLIN1	04		P		DISPLACE HOLE WITH AIR DOWN DP WITH 1500 CFM AT 4504', 230 GPM
	18:30 - 20:00	1.50	DRLIN1	03	E	P		WASH TO BTM. @ 4565, SPM 37, GPM 118, CFM 500, GPM 76, RPM 10, MTR RPM 156
	20:00 - 20:30	0.50	DRLIN1	07	A	X		CHANGE OUT GASKET ON PASON FLOW SENSOR
	20:30 - 21:30	1.00	DRLIN1	02	C	P		DRLG ROTATE F/4565 T/4567, WOB 4K, CFM 500 GPM 76, SPM 37, GPM 118, MTR RPM 156, SLIDE F/4567 T/4571 ON CONN. SHUT OFF AIR ON PARASITE STRING
	21:30 - 0:00	2.50	DRLIN1	02	C	P		DRLG ROTATE F/4571T/4596, WOB 4K, CFM 500 GPM 76, SPM 37, GPM 118, MTR RPM 156, SLIDE F/4596 T/4600 ON CONN. SHUT OFF AIR ON PARASITE STRING
10/12/2008	0:00 - 1:00	1.00	DRLIN1	02	C	P		DRLG F/4600 T/4603, WOB 6K, CFM 500 GPM 76, SPM 37 GPM 118, RPM 15 MUD MTR RPM 156, SHUT AIR OFF ON CONN.
	1:00 - 6:00	5.00	DRLIN1	05	A	P		TRIP FOR BIT. INSPECT BIT AND MOTOR.
	6:00 - 7:00	1.00	DRLIN1	06	A	P		CLEAN UP TRIPPING HAZARDS ON FLOOR & RIG SERVICE
	7:00 - 11:30	4.50	DRLIN1	05	A	P		CHANGE OUT BIT, MUD MTR. & UBHO SUB TEST M/M, (UBHO SUB WAS LEAKING @ SET SCREW), SCRIBE M/M
	11:30 - 14:00	2.50	DRLIN1	05	A	P		TIH TO 2411, DISPLACE HOLE WITH AIR W/1500 CFM
	14:00 - 15:00	1.00	DRLIN1	05	A	P		TIH TO 4512
	15:00 - 16:00	1.00	DRLIN1	04	A	P		DISPLACE HOLE W/AIR @ 4512. ESTABLISH CIRC., W/120 GPM DOWN PIPE, 500 CFM 76 GPM ON PARASITE STRING
	16:00 - 16:30	0.50	DRLIN1	03	E	P		WASH F/4512 T/4603 CLEANING UP BOTTOM
	16:30 - 19:00	2.50	DRLIN1	02	C	P		DRLG ROTATE F/4603 T/4605, WOB 2/11, RPM 20/30, RPM M/M 156, CFM 500, GPM 76, SPM 37, GPM 118, SPP ON/OFF 1550/1400, TORQUE ON/OFF 1/1K. SLIDE F/4605T/4613
	19:00 - 20:00	1.00	DRLIN1	12	E	P		LOST GAMMA SIGNAL WITH WEATHERFORD, CHECKED OUT SYSTEM, REGAINED SIGNAL
	20:00 - 0:00	4.00	DRLIN1	02	C	P		DRLG ROTATE F/4603 T/4700, WOB 2/11, RPM 20/30, RPM M/M 156, CFM 500, GPM 76, SPM 37, GPM 118, SPP ON/OFF 1550/1400, TORQUE ON/OFF 1/1K. LOSING MUD @ 4688 INCREASED CFM TO 1200, 184 GPM

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
10/13/2008	8:28 - 8:29	0.02	DRLIN1	02	C	P		DRLG F/4851 T/4855 WOB 10K, RPM 20, RPM M/M 156, CFM 1200, GPM 184, SPM 37, GPM119, SPP ON/OFF 1460/1350, TORQUE ON/OFF 1.5/1K
	8:29 - 8:29	0.00	DRLIN1	09	C	P		DRLG F/4700 T/4851 WOB 10K, RPM 20, RPM M/M 156, CFM 1200, GPM 184, SPM 37, GPM119, SPP ON/OFF 1460/1350, TORQUE ON/OFF 1.5/1K SLIDE TOTAL OF 14'
	17:00 - 17:00	0.00	DRLIN1					"C B,,'\ 'LL
	17:00 - 18:00	1.00	DRLIN1	04	H	P		ATTEMPT TO AIREATE ANNULAR
	17:00 - 17:00	0.00	DRLIN1					
	18:00 - 19:30	1.50	DRLIN1	05	F	P		TOH TO 2982
	19:30 - 20:00	0.50	DRLIN1	04	G	P		UNLOAD HOLE @ 2982 WITH AIR
	20:00 - 21:00	1.00	DRLIN1	05	F	P		TIH TO 4448
	21:00 - 22:00	1.00	DRLIN1	04	H	P		UNLOAD HOLE @ 4448 WITH AIR
	22:00 - 22:30	0.50	DRLIN1	04	A	P		FILL PIPE & ANNULAR W/MUD, BREAK CIRC.
	22:30 - 23:30	1.00	DRLIN1	05	F	P		TIH F/4448 T/4851
10/14/2008	0:00 - 6:00	6.00	DRLIN1	02	C	P		DRLG F/4855 T/5050 WOB 11, SPM 37, GPM 119, CFM 1200, GPM 184, DOWN PARASITE STRING, RPM 20, M/M RPM 158, TORQUE ON/OFF 1.5/1K, SPP ON/OFF 1250/1200
	6:00 - 21:30	15.50	DRLIN1	02	C	P		DRLG F/5050 T/5077 WOB 11, SPM 12, GPM 38, CFM 500, GPM 76, DOWN DRILL PIPE, RPM 20, M/M RPM 158, TORQUE ON/OFF 1.5/1K, SPP ON/OFF 520/480
	21:30 - 0:00	2.50	DRLIN1	02	C	P		DRLG F/5050 T/5077 WOB 11, SPM 18, GPM 57, CFM 400, GPM 61, DOWN DRILL PIPE, RPM 20, M/M RPM 158, TORQUE ON/OFF 1.5/1K, SPP ON/OFF 520/480
10/15/2008	0:00 - 2:30	2.50	DRLIN1	13	B	P		RIG UP & PRESSURE TEST AIR EQUIPMENT FOR RUNNING AIR DOWN DP & AIR DOWN PARASITE STRING
	2:30 - 8:00	5.50	DRLIN1	02	C	P		DRLG F/5077 T/5176 WOB 11, RPM 25, RPM M/M 158 SPM 30, GPM 96, CFM D/DP 150, GPM 23,CFM D/PARASITE 350, GPM 53, SPP 825 ,TORQUE 1.8K
	8:00 - 18:00	10.00	DRLIN1	02	C	P		DRLG F/5176 T/5280 WOB 11, RPM 25, RPM M/M 158 SPM 30, GPM 96, CFM D/DP 150, GPM 23,CFM D/PARASITE 350, GPM 53, SPP 1070 ,TORQUE 2.1K
	8:00 - 8:00	0.00	DRLIN1	06	A	P		LUBRICATE RIG
	18:00 - 19:00	1.00	DRLIN1	07	A	X		CHANGE OUT 2" GATE VALVE ON STAND PIPE
	19:00 - 0:00	5.00	DRLIN1	02	C	P		DRLG F/5280 T/5347 WOB 11, RPM 25, RPM M/M 158 SPM 30, GPM 96, CFM D/DP 150, GPM 23,CFM D/PARASITE 350, GPM 53, SPP 1070 ,TORQUE 2.1K
10/16/2008	0:00 - 9:00	9.00	DRLIN1	02	C	P		DRLG F/5347 T/5456 WOB 11, RPM 25, RPM M/M 158, SPM 30, GPM 96, CFM D/DP 150, GPM 23, CFM D/PARASITE 350, GPM 53, SP 1070, TORQUE 2.1K
	9:00 - 9:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	9:30 - 17:00	7.50	DRLIN1	02	C	P		DRLG F/5456 T/5554 WOB 11, RPM 25, RPM M/M 158, SPM 27, GPM 86, CFM D/DP 200, GPM 30, CFM D/PARASITE 500, GPM 76, SP 1070, TORQUE 2.1K
	17:00 - 18:00	1.00	DRLIN1	16	D	X		TROUBLE SHOOT MWD TOOL
	18:00 - 21:30	3.50	DRLIN1	05	I	X		TOH FOR MWD TOOL

Operation Summary Report

Well: BLACKHAWK A-5H

Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	21:30 - 23:00	1.50	DRLIN1	05	A	P		LAY DOWN DIRECTIONAL TOOLS, BIT & MUD MTR.
	23:00 - 0:00	1.00	DRLIN1	05	A	P		PICK UP NEW MUD MTR, BIT & SCRIBE DIRECTIONAL TOOL
10/17/2008	0:00 - 2:00	2.00	DRLIN1	05	A	P		FINISH PROGRAMMING DIRECTIONAL TOOL, TIH TO 2500 & UNLOAD HOLE WITH AIR DOWN DP.
	2:00 - 4:00	2.00	DRLIN1	05	A	P		TIH TO 4300 & UNLOAD HOLE WITH AIR DOWN DP& PARASITE STRING
	4:00 - 6:00	2.00	DRLIN1	05	A	P		FINISH TIH TO BOTTOM & BREAK CIRC.
	6:00 - 16:30	10.50	DRLIN1	02	C	P		DRLG ROTATING F/5554 T/5647, WOB 11, RPM 25, RPM M/M 158, CFM DP 200, GPM 30, CFM PARASITE 680, GPM 104,SPP 950, TORQUE 2.1K
	16:30 - 17:00	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	17:00 - 0:00	7.00	DRLIN1	02	C	P		DRLG ROTATING F/5647 T/5688, WOB 11, RPM 25, RPM M/M 158, CFM DP 200, GPM 30, CFM PARASITE 680, GPM 104,SPP 950, TORQUE 2.1K
10/18/2008	0:00 - 14:00	14.00	DRLIN1	02	C	P		DRLG F/ 5688 T5814/WOB 11, RPM 25, RPM M/M 158, SPM 28, GPM 89, CFM DP 200, GPM 30, CFM PARASITE 680, GPM 104, SPP 1050, TORQUE 2.1K
	14:00 - 19:00	5.00	DRLIN1	05	A	P		TRIP OUT. L/D DIRECTIONAL GAMMA TOOL AND CHECK MOTOR AND BIT.
	19:00 - 0:00	5.00	DRLIN1	05	A	P		MAKE UP TOOLS AND TRIP IN.
10/19/2008	0:00 - 1:30	1.50	DRLPRO	05	A	P		TRIP IN TO 4426'
	1:30 - 2:30	1.00	DRLPRO	06	D	P		SLIP AND CUT DRILLING LINE.
	2:30 - 3:00	0.50	DRLPRO	05	A	P		TRIP IN TO 5112'
	3:00 - 6:00	3.00	DRLPRO	02	G	P		TROUGH HOLE FOR SIDETRACK #1 AT 5113' (OPEN HOLE SIDETRACK)
	6:00 - 20:30	14.50	DRLPRO	02	G	P		TIME DRILL F/5113'-5137
	20:30 - 0:00	3.50	DRLPRO	05	A	P		TRIP OUT AND AJUST MOTOR TO 2.00 DEG. CHANGE BITS
10/20/2008	0:00 - 3:30	3.50	DRLPRO	05	A	P		AJUST MOTOR TO 2.00 DEG. TRIP IN HOLE.
	3:30 - 5:00	1.50	DRLPRO	03	E	P		WASH F/4571-5081 DRAGGING WALL.
	5:00 - 6:00	1.00	DRLPRO	02	G	P		TROUGH AT 5113'
	6:00 - 13:30	7.50	DRLPRO	02	G	P		TIME DRILL AT 5113'-5120' WOB 5-10, PSI 1340, CFM 700 PARASITE AT 1000 PSI. 2 ATTEMPT TO SIDETRACK WITH LEGDES BREAKING OFF. TOOL FACE AT 80-90 RIGHT.
	13:30 - 0:00	10.50	DRLPRO	02	G	P		TIME DRILL AT 5080 TO 5092' WOB 5-10, PSI 1340, CFM 700 PARASITE AT 1000 PSI. 2 ATTEMPT TO SIDETRACK WITH LEGDES BREAKING OFF. GOT UP TO 19 WOB ON 2ND ATTEMPT. WORKING ON 3RD ATTEMPT. TOOL FACE AT 105-120 RIGHT.
10/21/2008	0:00 - 9:30	9.50	DRLPRO	02	G	P		TIME DRILL AT 5080 TO 5092', 5140-5145' WOB 5-10, PSI 1340, CFM 700 PARASITE AT 1000 PSI. 2 ATTEMPT TO SIDETRACK WITH LEGDES BREAKING OFF. GOT UP TO 19 WOB ON 2ND ATTEMPT. WORKING ON 3RD ATTEMPT. TOOL FACE AT 105-120 RIGHT.
	9:30 - 10:00	0.50	DRLPRO	05	A	P		TRIP IN TO CASING.
	10:00 - 11:00	1.00	DRLPRO	06	A	P		RIG SERVICE
	11:00 - 14:00	3.00	DRLPRO	05	A	P		TRIP OUT PULL MWD TOOL, BREAK BIT AND CLEAN UP FLOOR

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H

Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	14:00 - 19:30	5.50	DRLPRO	13	C	P		TEST BOPE TESTED 250 LOWFOR 5 MINS. AND 3000 PSI FOR HIGH FOR 10 MINS. ON ALL VALVES, PIPE RAMS, BLIND RAMS. TEST ALL CHOKE LINES AND VALVES AND FLOOR VALVES. TESTED ANNULAR TO 1700 PSI. RAN ACCUM. TEST.
	19:30 - 0:00	4.50	DRLPRO	05	A	P		ADJUST MUD MOTOR FROM 2.00 DEG TO 1.37 DEG MAKE UP DIRECTIONALS TOOLS AND ORIENT. TRIP IN
10/22/2008	0:00 - 1:00	1.00	DRLPRO	05	A	P		TRIP IN BELOW SHOE AND BLOW DOWN WELL.
	1:00 - 2:00	1.00	DRLPRO	05	A	P		TRIP IN WASH 60' TO BTM. NO TIGHT SPOTS.
	2:00 - 3:00	1.00	DRLPRO	02	D	P		DRILLING F/5814-5819 WOB 2-10, 200 CFM DOWN DP, 700 ON PARASITE, 120 GPM, 25 RPM 159 RPM ON MTR, PSI ON/OFF 850/700, TORQUE ON/OFF 3/1
	3:00 - 5:30	2.50	DRLPRO	02	D	P		SLIDE DRILLING F/5819-5830 WOB 25, 200 CFM, 700 CFM ON PARASITE, 120 GPM, PSI ON/OFF 950/850,
	5:30 - 6:00	0.50	DRLPRO	02	D	P		DRILLING F/5830-5840 WOB 2-10, 200 CFM DOWN DP, 700 ON PARASITE, 120 GPM, 25 RPM 159 RPM ON MTR, PSI ON/OFF 850/700, TORQUE ON/OFF 3/1
	6:00 - 9:00	3.00	DRLPRO	02	D	P		SLIDE DRILLING F/5840- 5847 WOB 25, 200 CFM, 700 CFM ON PARASITE, 120 GPM, PSI ON/OFF 950/850,
	9:00 - 10:30	1.50	DRLPRO	02	D	P		DRILLING F/5847- 5871' WOB 2-10, 200 CFM DOWN DP, 700 ON PARASITE, 120 GPM, 25 RPM 159 RPM ON MTR, PSI ON/OFF 850/700, TORQUE ON/OFF 3/1
	10:30 - 12:30	2.00	DRLPRO	02	D	P		SLIDE Drilling 5871' - 5878', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6 VIS = 35, FOOTAGE = 7' , FPH = 3.5 , TOOL FACE =
	12:30 - 14:30	2.00	DRLPRO	02	D	P		ROTATE Drilling 5878' - 5913', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6, VIS = 35, FOOTAGE = 35' , FPH = 17.5 ,
	14:30 - 17:00	2.50	DRLPRO	02	D	P		SLIDE Drilling 5913' -5916', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6 VIS = 35, FOOTAGE = 3' , FPH = 1.2 , TOOL FACE = 10L
	17:00 - 18:30	1.50	DRLPRO	02	D	P		ROTATE Drilling 5916' - 5931', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE = 15' , FPH = 10 ,
	18:30 - 19:30	1.00	DRLPRO	06	A	P		LUBERCATE RIG, AND CHANGE OUT GASKET ON FLOW SENSOR

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	19:30 - 20:00	0.50	DRLPRO	02	D	P		ROTATE Drilling 5931' - 5935', WOB 5-15K, GPM= 222 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE = 4' , FPH = 2 ,
	20:00 - 23:30	3.50	DRLPRO	02	D	P		SLIDE Drilling 5935' -5938', WOB 5-15K, GPM= 222 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6VIS = 35, FOOTAGE = 3' , FPH = .86 , TOOL FACE = 20R
	23:30 - 0:00	0.50	DRLPRO	02	D	P		ROTATE Drilling 5938' - 5939', WOB 5-15K, GPM= 222 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.VIS = 35, FOOTAGE = 1' , FPH = 2 ,
10/23/2008	0:00 - 1:00	1.00	DRLPRO	02	A	P		Rotate Drilling 5939' - 5943', WOB 5-15K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE = 4' , FPH = 4 ,
	1:00 - 2:00	1.00	DRLPRO	02	C	P		Slide Drilling 5943' - 5944', WOB 20-25K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 1000/1200 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 0K, MUD WT = 8.VIS = 35, FOOTAGE = 1' , FPH = 1, TOOL FACE 20R
	2:00 - 5:30	3.50	DRLPRO	05	A	P		TOOH at 5944' to inspect mud motor
	5:30 - 6:00	0.50	DRLPRO	05	A	P		Drain mud motor and inspect bit, laid down motor
	6:00 - 14:30	8.50	DRLPRO	05	A	P		Pickup mud motor and check. TIH to 3871'. Unload hole w/ 700 scfm air. TIH to 4680'. Unload hole. TIH to 5871'
	14:30 - 15:00	0.50	DRLPRO	03	D	P		Wash and ream 5871' - 5950'
	15:00 - 16:30	1.50	DRLPRO	02	A	P		Slide Drilling 5944' - 5950', WOB 30-34K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 1093 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 860 TORQUE ON / OFF BTM = 0K, MUD WT = 8.VIS = 35, FOOTAGE = 6' , FPH = 4, TOOL FACE 2L
	16:30 - 18:00	1.50	DRLPRO	02	D	P		Rotate Drilling 5950' - 5960', WOB 10K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 860 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE =18 ' , FPH = 10 ,

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:00 - 19:00	1.00	DRLPRO	02	D	P		Rotate Drilling 5960' - 5968', WOB 10K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 860 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE =18 ' , FPH = 8 ,
	19:00 - 21:30	2.50	DRLPRO	05	A	P		TOOH TO REPLACE 3- 3/4 MUD MOTOR AND BIT
	21:30 - 22:30	1.00	DRLPRO	05	A	P		BREAK BIT L/D M/M PICKUP NEW MUD MOTOR
	22:30 - 0:00	1.50	DRLPRO					PULL MWD TOOL CHANGE OUT BATTERY AND CALLABRATE TOOL
10/24/2008	0:00 - 2:30	2.50	DRLPRO	05	A	P		TIH TO 4585'
	2:30 - 3:30	1.00	DRLPRO	04	A	P		BLOW DOWN HOLE W/700 SCFM
	3:30 - 5:30	2.00	DRLPRO	05	A	P		TIH 4580' TO 5745', Tight at 5350', 5630', 5695'
	5:30 - 6:00	0.50	DRLPRO	02	D	P		Rotate Drilling 5968' - 5973', WOB 2-6K, GPM= 128 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1050 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 5' , FPH = 10 ,
	6:00 - 8:00	2.00	DRLPRO	02	D	P		Slide Drilling 5973' - 5983', WOB 6K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM =25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1140 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 10' , FPH = 5, TOOL FACE 20R
	8:00 - 8:30	0.50	DRLPRO	02	D	P		Rotate Drilling 5983' - 6000', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1051/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.5K, MUD WT = 8.4, VIS = 35, FOOTAGE = 17' , FPH = 34 ,
	8:30 - 10:00	1.50	DRLPRO	02	D	P		Slide Drilling 6000' - 6008', WOB 16K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 185, PRESS ON OFF, BTM = 1140 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 8' , FPH = 5.3, TOOL FACE 10R
	10:00 - 11:00	1.00	DRLPRO	02	D	P		Rotate Drilling 6008' - 6030', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1051/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 22' , FPH = 22,
	11:00 - 13:00	2.00	DRLPRO	02	D	P		Slide Drilling 6030' - 6038', WOB 16K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 185, PRESS ON OFF, BTM = 1148/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 7' , FPH = 3.5,
	13:00 - 13:30	0.50	DRLPRO	12	E	Z		Trouble shoot MWD and Gamma

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	13:30 - 15:00	1.50	DRLPRO	02	D	P		Rotate Drilling 6038' - 6064', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 26' , FPH = 17.3,
	15:00 - 17:30	2.50	DRLPRO	02	D	P		Slide Drilling 6064' - 6074', WOB 14K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 10', FPH = 4,
	17:30 - 19:00	1.50	DRLPRO	02	D	P		Rotate Drilling 6074' - 6096', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 22' , FPH = 14.6,
	19:00 - 21:00	2.00	DRLPRO	02	D	P		Slide Drilling 6096' - 6100', WOB 20-30K, GPM= 127 PUMP # 1 =30, SPM = PUMP #2 = 0 SPM, RPM =25, MOTOR RPM = 188, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 930 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 4', FPH =1.33', TOOL FACE = 0
	21:00 - 22:30	1.50	DRLPRO	02	D	P		Rotate Drilling 6100' -6127', WOB 10K, GPM= 128 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 85, VIS = 34, FOOTAGE = 27' , FPH =18
	22:30 - 0:00	1.50	DRLPRO	02	D	P		Slide Drilling 6127' - 6133', WOB 20-30K, GPM= 127 PUMP # 1 =30, SPM = PUMP #2 = 0 SPM, RPM =25, MOTOR RPM = 188, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 930 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 6', FPH =4', TOOL FACE - 0
10/25/2008	0:00 - 1:30	1.50	DRLPRO	02	D	P		Slide Drilling 6133' - 6137', WOB 10K, GPM= 127 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 200 SCFM = 30 GPM, RPM = 25, MOTOR RPM = 169, PRESS ON OFF, BTM = 1100 PSI , SCFM DOWN PARASITE =700, PARASITE PSI = 930 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 4' , FPH = 2.7FOOL FACE 0 R
	1:30 - 6:30	5.00	DRLPRO	02	D	P		Rotate Drilling 6137' - 6202', WOB = 10K, GPM = 127 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 700 SCFM , RPM = 25, MOTOR RPM = 169, PRESS ON/OFF, BTM = , SCFM DOWN PARASITE = 1200, PARASITE PSI = 930 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.5, VIS = 35, FOOTAGE = ' 65, FPH = 1.3, Increased air down parasite to 1200 scfm and 300 down drill pipe at 07:00 hours. Lost approximately 142 bbls mud between 05:30 - 07:00

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	6:30 - 10:30	4.00	DRLPRO	02	D	P		Slide Drilling 6202' - 6211', WOB = 40K, GPM = 74 PUMP # 1 = 23, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 300 SCFM = 46 GPM, RPM = 0, MOTOR RPM = 180 PRESS ON/OFF, BTM = 1100 PSI , SCFM DOWN PARASITE = 1200, PARASITE PSI = 975 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 9, FPH = 2.25, FOOL FACE = 0
	10:30 - 12:00	1.50	DRLPRO	02	D	P		Rotate Drilling 6211' - 6217', WOB = 10-12K, GPM = 120 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, AIR DOWN DP =200 SCFM = 1000 GPM, RPM = 25, MOTOR RPM = 175, PRESS ON/OFF, BTM = 1036 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 990 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.4, VIS = 35, FOOTAGE = ' 6, FPH = 4
	12:00 - 18:00	6.00	DRLPRO	05	A	P		TOOH at 6217' to replace bit and BHA
	18:00 - 19:00	1.00	DRLPRO	06	A	P		Rig service
	19:00 - 21:00	2.00	DRLPRO	05	A	P		TIH to 4530' Install rotating head
	21:00 - 22:30	1.50	DRLPRO	05	D	P		Unload Hole at 4530' 1000 CFM down Parasite 700 cfm down drill pipe
	22:30 - 0:00	1.50	DRLPRO	05	A	P		TIH 4530' to 6187' Ream 90' to bottom. Record gamma over last 30' due to BHA change
10/26/2008	0:00 - 0:30	0.50	DRLPRO	05	A	P		TIH
	0:30 - 3:00	2.50	DRLPRO	02	D	P		Rotate Drilling 6217' to 6234", WOB = 10-12K, GPM = 127 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, AIR DOWN DP =200 SCFM = 1000 GPM, RPM = 25, MOTOR RPM = 169, PRESS ON/OFF,BTM = 1036 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 990 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.5, VIS = 35, FOOTAGE =17 ' , FPH =6.8
	3:00 - 6:00	3.00	DRLPRO	05	A	P		POOH
	6:00 - 9:00	3.00	DRLPRO	05	A	P		Change out mud motors, make up bit, scribe tools and TIH to 3900', Install rotating head
	9:00 - 10:30	1.50	DRLPRO	06	D	P		Dock top drive, cut drilling line and 2 point calibrate
	10:30 - 11:00	0.50	DRLPRO	06	A	P		Rig Service
	11:00 - 14:30	3.50	DRLPRO	05	A	P		TIH to 4650' and unload hole w/ 800 scfm air and 16 gpm down DP and 1200 scfm down parasite string
	14:30 - 15:00	0.50	DRLPRO	05	D	P		Break circulation and wash 6206' - 6234'
	15:00 - 18:00	3.00	DRLPRO	02	D	P		Rotate Drilling 6234' to 6239", WOB = 9k, GPM = 123 PUMP # 1 = 39, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 200 SCFM = 30 GPM, RPM = 25, MOTOR RPM = 184, PRESS ON/OFF,BTM = 1036 PSI , SCFM DOWN PARASITE = 1300, PARASITE PSI =700 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.5, VIS = 35, FOOTAGE =5 ' , FPH =1.6
	18:00 - 21:00	3.00	DRLPRO	05	A	P		TOOH to check bit and motor
	21:00 - 22:00	1.00	DRLPRO	05	A	P		Break bit and mud motor. It took 3000 foot pounds of torque to attempt to drain motor and motor did not drain good. Bit showed flat crested wear down where cutters were the same height as the ROP limiters button
	22:00 - 0:00	2.00	DRLPRO	05	A	P		Download Gamma log from tools

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER:	FEE *UTU71675
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	N/A
7. UNIT or CA AGREEMENT NAME:	N/A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM	8. WELL NAME and NUMBER: BLACKHAWK A-5H
2. NAME OF OPERATOR: ANADARKO PETROLEUM CORPORATION	9. API NUMBER: 4300731402
3. ADDRESS OF OPERATOR: 1099 18TH ST. STE 1800 CITY DENVER STATE CO ZIP 80202 / PHONE NUMBER: (720) 929-6832	10. FIELD AND POOL, OR WILDCAT: HELPER/FERRON A

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1142' FNL, 263' FEL LAT: 39.685470 LONG: -110.817271 COUNTY: CARBON

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: 10/30/2008	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: RIG RELEASED
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko released Drill Rig: H&P 298 10/30/08 12:00

Well is currently shut in and awaiting further evaluation on Drilling alternatives as stated in Sundry sent 10-27-2008. The cement plug was set 10/28/2008 at 4300' with 50 sx of class "G" Neat Cement. BLM Representative Walton Willis was notified and declined to witness setting the plug.

The status of the well will be updated monthly as stated in the Conditions of Approval. Attached is the most current Drilling Operation Summary. Thank you.

NAME (PLEASE PRINT) Cindy B. Vue TITLE Regulatory Analyst

SIGNATURE Cindy B. Vue DATE 11/3/2008

(This space for State use only)

RECEIVED
NOV 04 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

ROCKIES

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
7/30/2008	7:00 - 17:00	10.00	MAINT	02		P		MIRU NELCO DOZERS & TRACK HOE. STARTED CONSTRUCTION OF ROAD LOCATION. COMPLETED - INSTALLED 100' 24". INSTALLED PIT ANCHOR FOR BLEWY LINE.
8/3/2008	19:30 - 21:00	1.50	RDMO	01	E	P		Rig down back yard
	21:00 - 0:00	3.00	RDMO	01	E	P		Wait on daylight
8/4/2008	0:00 - 6:00	6.00	RDMO	01	E	P		Wait on daylights
	6:00 - 20:00	14.00	RDMO	01	E	P		Rig down rotary tools, lower derrick, gas buster, shaker skid, sub and secure all lose equipment for long road trip Stack out back yard along road and prep for haul trucks in the morning. Wait on derrick
	20:00 - 0:00	4.00	RDMO	01	E	P		Wait on daylight
8/5/2008	0:00 - 6:00	6.00	RDMO	01	E	P		Wait on daylight
	6:00 - 20:00	14.00	RDMO	01	A	P		Load both generators, mud pump, diesel tanks, mud tanks, crown section of derrick, oil house, water tank, company mans house, mud loggers house, shaker skid, VFD, MCC. Total of 16 loads left for Utah
	20:00 - 0:00	4.00	RDMO	01	A	P		Wait on daylight
8/6/2008	0:00 - 6:00	6.00	RDMO	01	A	P		Wait on daylight
	6:00 - 18:00	12.00	RDMO	01	A	P		Continue to move rig to location. Assembly equipment in preparation for rig up. The following equipment has arrive on location: Crown section of derrick, mud mixing tank, #1 pump, settling mud tank, diesel tank, water tank, cat walk, beaver slide, drill collars and HWDP, Co-man's house, 1 double sleeper house, oil house, both generators, draw works, drilling line, BOP skid, shaker skid, drillers side sub, center sub, dog house, change house, VFD house, HPU house, toolpushers house. There is more edquipment on the road.
	18:00 - 0:00	6.00	RDMO	01	A	P		Wait on daylight
8/7/2008	0:00 - 6:00	6.00	RDMO	01	A	P		Wait on daylight
	6:00 - 18:00	12.00	RDMO	01	A	P		Continue to move the following rig to location: Choke & trip tank, parts house, rig crew living quarters, BOP handler, Potable water tank, connex, pit side of sub, bottom of derrick. Rearrange equip on lower location and set 1-DBL ended sleeper, H&P crew quarters and old co-man's office. #2 mud pump and MCC house was in Roosevelt, UT
	18:00 - 0:00	6.00	RDMO	01	A	P		Wait on daylight
8/8/2008	0:00 - 6:00	6.00	RDMO	01	A	S		Wait on 3D Drilling and daylight

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	6:00 - 18:00	12.00	RDMO	12	E	S		Wait on 3D Drilling to arrive on location; 06:00 hrs contact; rig was loading up and headed to location. 10:30 hrs contact; rig in route to location. 14:00 hrs contact; truck hauling pipe, cellar ring and digging tools was lost in Helper UT, they were directed to location, truck un-hooked from trailer and drove to Wellington to wait on rig. 16:30 hrs contact; rig stuck in Utah/Colorado port of entry trying to get all permits needed to enter Utah. 20:00 hrs contact; rig had cleared all necessary permits to leave port of entry but could not leave due to truck hauling it does not have proper authority to enter Utah and waiting to be cleared. All rig components are on location
	18:00 - 0:00	6.00	RDMO	12	E	S		Wait on 3D Drilling and daylight
8/9/2008	0:00 - 6:00	6.00	RDMO	01	A	S		Wait on 3D Drilling and daylight
	6:00 - 10:00	4.00	DRLCON	01	D	P		Wait on 3D Drilling
	10:00 - 10:30	0.50	DRLCON	01	D	P		Unload 3D Drilling rathole rig
	10:30 - 20:30	10.00	DRLCON	01	D	P		Drill conductor hole to 65' at 20:30 hrs
	20:30 - 0:00	3.50	DRLCON	01	D	P		Continue to drill conductor w/ 3D Drilling. H&P shut down and wait on daylight
8/10/2008	0:00 - 6:00	6.00	DRLCON	01	D	S		Drill conductor to 80' GL and cellar
	6:00 - 11:00	5.00	DRLCON	01	D	S		Pickup conductor pipe and weld together. Cement conductor w/ Superior
	11:00 - 0:00	13.00	DRLCON	01	D	S		Drill mouse hole, hard rock drilling
8/11/2008	0:00 - 6:00	6.00	DRLCON	01	D	P		Wait on welder and daylight
	6:00 - 8:00	2.00	DRLCON	01	D	P		Weld up mouse hole pipe
	8:00 - 9:30	1.50	DRLCON	01	D	P		Wait on Superior Well Service
	9:30 - 12:00	2.50	DRLCON	01	D	P		Finish cementing top of conductor and cement mouse hole
	12:00 - 13:00	1.00	DRLCON	01	B	P		Lay out location for rig up
	13:00 - 13:30	0.50	DRLCON	01	B	P		HSM w/ Hemphill trucking and rig crews
	13:30 - 20:00	6.50	DRLCON	01	B	P		MIRU the following equipment: shaker skid, settling tank, suction tank, both mud pumps, MCC house, water tank, oil house, VFD house, both generators, diesel tank, draw works, mud boat, BOP handler, substructure and raise substructure. Estimate 55-60% rigged up
	20:00 - 0:00	4.00	DRLCON	01	B	P		Wait on daylight
8/12/2008	0:00 - 6:00	6.00	DRLCON	01	B	P		Wait on daylight
	6:00 - 20:00	14.00	DRLCON	01	B	P		Continue to rig up the following equipment: Set and raise dog house, raise shakers, raise gas buster, install flow line, cat walk, beaver slide, set parts house, set HPU, assemble derrick and raise, derrick up at 16:25 hrs, set houses on location, hookup electrical lines, set pipe racks and load w/ BHA, unload casing
	20:00 - 0:00	4.00	DRLCON	01	B	P		Wait on daylight
8/13/2008	0:00 - 6:00	6.00	MIRU	12	D	P		WAIT ON DAYLIGHT.
	6:00 - 22:00	16.00	MIRU	01	B	P		Continue to rig up the following equipment: Install flow line, rig up floor, hook up flare lines, Set houses on location, hookup electrical lines, set pipe racks and load w/ BHA,
	22:00 - 0:00	2.00	MIRU	05	A	P		Mix spud mud - pickup BHA
8/14/2008	0:00 - 1:00	1.00	PRPSPD	05	A	P		ATTEMPT TO MAKE UP BIT WITH SCORPION HAVING TROUBLE WITH ADJUSTMENT ARMS

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	1:00 - 7:00	6.00	PRPSPD	07	A	X		WAIT ON NEW SCORPION
	7:00 - 8:00	1.00	PRPSPD	07	B	X		ATTEMPT TO MAKE UP BIT.
	8:00 - 13:00	5.00	PRPSPD	07	A	X		WAIT ON WELDER/ CUT BIT BREAKER TO FIT IN SCORPION.
	13:00 - 14:00	1.00	PRPSPD	05	A	P		MAKE UP BIT, RUN IN HOLE AND TAGGED CMT.
	14:00 - 14:30	0.50	DRLSUR	02	F	P		DRILL 30 OF CMT.
	14:30 - 21:00	6.50	DRLSUR	02	B	P		DRILL F/105-T/318, WOB-11-18, SPP ON/OFF-423/1009, TORQUE ON/OFF- 2-0K, ROTORY RPM-40-60, MOTOR RPM-158, SPM-1160 , GPM-720, MW-9.0, VIS-37
	21:00 - 21:30	0.50	DRLSUR	09	A	P		WIRELINE SURVEY@ 260 - 2.5 DEG.
	21:30 - 22:00	0.50	DRLSUR	07	A	P		LEVEL DERRICK
	22:00 - 0:00	2.00	DRLSUR	02	A	P		DRLG F/318-T/ 368 , WOB 15 - 20, ROT 50 - 70, TORQUE OFF/ON 0-3K, SPM 160, MUD MTR.720 GPM - 158 RPM, TOP DRIVE 50 TO 70 RPM, SPP ON/OFF 1155/455
8/15/2008	0:00 - 0:30	0.50	DRLSUR	02	B	P		DRLG F/368-379 , WOB 15 - 20, ROT 50 - 70, TORQUE OFF/ON 1-3K, SPM 160, 720 GPM MOTOR RPM 115,, TOP DRIVE 50 TO 70 RPM, SPP ON/OFF 1155/950
	0:30 - 1:00	0.50	DRLSUR	07	A	P		INSPECT DERRICK AND TOP DRIVE. CHANGE OUT EXTENTION PORT ON GRABBER, TIE DOWN BOLTS ON CAP. (LOTS OF VIBRATION WHILE DRILLING SURFACE.
	1:00 - 5:30	4.50	DRLSUR	02	B	P		DRLG F/379-535 , WOB 15 - 20, ROT 50 - 70, TORQUE OFF/ON 1-3K, SPM 160, 720 GPM MOTOR RPM 115, TOP DRIVE 50 TO 70 RPM, SPP ON/OFF 1155/950
	5:30 - 6:30	1.00	DRLSUR	04	C	P		CIRC AND CLEAN HOLE, DROP SURVEY (MISS RUN ON SURVEY)
	6:30 - 9:00	2.50	DRLSUR	05	A	P		TRIP OUT, L/D 8" TOOLS. NO TIGHT SPOTS ON TRIP.
	9:00 - 12:00	3.00	DRLSUR	11	A	P		SAFETY METTING ON PICKING UP PIPE WITHOUT LAY DOWN MACHINE.RIG UP CASING EQUIPMENT
	12:00 - 14:30	2.50	DRLSUR	12	E	X		WAIT ON BACK UP TONGS FOR CASING.
	14:30 - 17:30	3.00	DRLSUR	11	B	P		MAKE UP SHOE AND RUN 13 JTS OF 10 3/4 32.75#, H-40 STC LAND AT 530' HAD TO PUMP IN 7 JTS. TO BTM. DO TO FLOATING AND CENTRI. DRAGGING IN HOLE AND NOT ENOUGH WT TO PUSH TO BTM.
	17:30 - 19:00	1.50	DRLSUR	04	E	P		CIRC AND RIG DOWN CSG. EQ.AND RIG UP CMT. EQ.
	19:00 - 20:00	1.00	DRLSUR	15	A	P		CMT WITH SUPERIOR AND CMT WITH. 350 SKS. CLASS G 15.6#, 1.18 YIELD, 5.20 GAL/SK, 22 BBLS BACK TO SURFACE BUMPED PLUG WITH 500 PSI OVER HELD FOR 5 MINS FLOATS HELD.
	20:00 - 0:00	4.00	DRLSUR	12	B	P		WAIT ON CMT.
8/16/2008	0:00 - 4:30	4.50	DRLIN1	18	A	P		REMOVE CMT HEAD, LIFT CONDUCTOR CUT HOLES IN CASING TO DRAIN, CUT OFF CASING AND L/D, CLEAN CELLAR TO WELD ON WELLHEAD. MAKE FINAL CUT ON CASING.
	4:30 - 7:00	2.50	DRLIN1	18	A	P		WELD ON WELLHEAD AND TEST TO 900 PSI AND HELD FOR 20 MIN. GOOD TEST.
	7:00 - 20:30	13.50	DRLIN1	13	A	P		INSTALL B SECTION AND NIPPLE UP BOPE
	20:30 - 0:00	3.50	DRLIN1	13	C	P		PRESSSSURE TEST BOPS

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
8/17/2008	0:00 - 3:00	3.00	DRLIN1	13	C	P		TEST BOPE 250 PSI FOR 5 MIN, 3000 PSI FOR 10 MIN, TEST CASING TO 1000 PSI FOR 30 MIN, TESTED ANNULAR 1750 PSI.
	3:00 - 4:00	1.00	DRLIN1	13	A	P		FINISH NIPPLE UP.
	4:00 - 4:30	0.50	DRLIN1	13	A	P		INSTALL WEAR BUSHING.
	4:30 - 7:00	2.50	DRLIN1	05	A	P		PICK UP BHA
	7:00 - 7:30	0.50	DRLIN1	18	A	P		TIGHTEN ROT. HEAD FLANGE
	7:30 - 8:00	0.50	DRLIN1	02	F	P		DRLG CMT, TAG CMT @ 476, FLOAT @ 483, SHOE@ 530
	8:00 - 11:30	3.50	DRLIN1	02	B	P		DRLG F/530' T/892', WOB 16K, RPM 48, TQ ON/OFF BTM 4/1, SPM #1 111, GPM 498, SPP ON/OFF BTM 986/878 RPM, MUD MTR RPM 79, ROP 30'
	11:30 - 12:00	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @ 823 X PULSE 4.1 DEG.
	12:00 - 16:30	4.50	DRLIN1	02	B	P		DRLG F/892 T/960, WOB 4K, RPM 65, TQ ON/OFF 1/1K, SPM #1 111, GPM 498, SPP ON/OFF BTM 986/930 PSI MUD MTR. 79 RPM ROP 30'
	16:30 - 17:00	0.50	DRLIN1	06		P		SERVICE RIG - CALIBRATE PASON WT
	17:00 - 22:00	5.00	DRLIN1	02	B	P		DRLG F/ 960 T/1054, WOB 6K, RPM 75, TQ ON/OFF 2/1, SPM #2 111, GPM 498, SPPON/OFF BTM 990/920 PSI, MUD MTR 79, ROP 30'
	22:00 - 22:30	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @ 964 4.0 DEG., XPULSE 3.7 DEG. AZ. 216.6
	22:30 - 0:00	1.50	DRLIN1	02	B	P		DRLG F/1054 T/1120', WOB 6K, RPM 75, TQ ON/OFF BTM 2/1K, SPM #2 111, GPM 498, SPP ON/OFF BTM 030/933 PSI, MUD MTR. 79,ROP 30'
8/18/2008	0:00 - 1:00	1.00	DRLIN1	02	B	P		DRLG F 1120 T 1150, WOB 6K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1030/933, MUD MTR RPM 79, ROP 30'
	1:00 - 1:30	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @ 1063 4.5 DEG.
	1:30 - 4:30	3.00	DRLIN1	02	B	P		DRLG F 1150 T 1245, WOB 6K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1030/933, MUD MTR RPM 79, ROP 30'
	4:30 - 5:00	0.50	DRLIN1	09	A			WIRELINE SURVEY @ 1157 3 1/4 DEG.
	5:00 - 7:30	2.50	DRLIN1	02	B	P		DRLG F 1245 T 1348 , WOB 6-10K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1047/982, MUD MTR RPM 79, ROP 41'
	7:30 - 8:00	0.50	DRLIN1	09	A	P		WIRELINE SURVEY @1276 3.25 DEG. XPULSE 1256, 3.5 DEG 214.5 AZ.
	8:00 - 0:00	16.00	DRLIN1	02	B	P		DRLG F 1348 T 2025 , WOB 10-15K, RPM 75, TQ ON/OFF BTM 2/1 SPM #2 111, GPM 498, SPP ON/OFF BTM 1047/982, MUD MTR RPM 79, ROP 41'
8/19/2008	0:00 - 1:00	1.00	DRLIN1	02	B	P		DRLG F/2025 T/ 2100 , WOB 18K, RPM 75, TQ ON/OFF BTM 2/1, SPM #2 111, GPM 498, SPP ON/OFF 1450/1111, MUD MTR RPM 79,
	1:00 - 1:30	0.50	DRLIN1	06	A	P		SERVICE RIG
	1:30 - 8:00	6.50	DRLIN1	02	B	P		DRLG F/2100 T/2382 , WOB 15K, RPM 75, TQ ON/OFF BTM 4/1K, SPM #2 111, GPM 0N/OFF BTM 498, SPP ON/OFF BTM 1350/1200 PSI, MUD MTR 79 RPM, ROP 43.3'/HR

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	8:00 - 12:00	4.00	DRLIN1	02	B	P		DRLG F/2382-2477 , WOB 10K, RPM 75, TQ ON/OFF BTM 3/1K, SPM #2 111, GPM 0N/OFF BTM 498, SPP ON/OFF BTM 1250/1200 PSI, MUD MTR 79 RPM, ROP 23.7'/HR (ANGLE IS BUILDING TO 4.6 USE LIGHTER WT. TO DRILL WITH.)
	12:00 - 12:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	12:30 - 14:30	2.00	DRLIN1	04	D	X		LOST TOTAL CIRC. PUMP LCM PILLS, BUILD VOL. LOST 650 BBLS. POSSIBLE ZONE LOSS AT 2454 AND AT BTM OF 2477'
	14:30 - 20:00	5.50	DRLIN1	16	E	P		HAUL WATER AND FILL MUD TANKS, RESERVE PIT AND RIG TANKS MIX LCM PILLS.
	20:00 - 0:00	4.00	DRLIN1	02	B	P		DRLG F/2477 T/2557 , WOB 10K, RPM 65, TQ ON/OFF BTM 3/1K, SPM #2 78, 350 GPM , SPP ON/OFF BTM 890/ PSI, MUD MTR 58 RPM, ROP 25'/HR
8/20/2008	0:00 - 0:30	0.50	DRLIN1	02	B	P		DRLG F/2557 T/2561, WOB 10, RPM 60, TQ ON/OFF BTM 3/1, SPM #2 78, 350 GPM, SPP ON/OFF BTM 985/900, MUD MTR. 58 ROP 15' PER HR
	0:30 - 3:30	3.00	DRLIN1	04	D	P		RUN OUT OF FLUID, HAUL WATER FOR VOLUME
	3:30 - 10:30	7.00	DRLIN1	02	B			DRLG F/22561 T/2746 , WOB 10K, RPM 70, TQ ON/OFF BTM 3/1K, SPM #2 70, GPM 315, SPP ON/OFF BTM 675/650 PSI, MUD MTR 50 RPM, ROP 24.9/HR
	10:30 - 11:00	0.50	DRLIN1	04	D	P		WORK PIPE WHILE WAITING ON WATER
	11:00 - 16:00	5.00	DRLIN1	05	A	P		POOH, CHANGE OUT MUD MTR, MOVE REAMERS IN BHA. HAD 30K OVER PULL AT 2450 WORK THRU AND DID NOT SEE IT AGAIN.
	16:00 - 19:00	3.00	DRLIN1	05	A	P		TIH WITH NEW BHA
	19:00 - 20:30	1.50	DRLIN1	03	E	X		WASH & REAAM TIGHT SPOTS @ 2450 & 2746
	20:30 - 0:00	3.50	DRLIN1	02	B	P		DRLG F/2746 T/ 2780, WOB 10K, RPM 65, TQ ON/ OFF BTM 2/1, SPM #1 70, GPM 315, SPP ON/OFF 840/ 800, MUD MTR 50, ROP 25' PER HR
8/21/2008	0:00 - 0:30	0.50	DRLIN1	13	A	P		INSTALL ROTATING HEAD RUBBER
	0:30 - 3:00	2.50	DRLIN1	02	B	P		DRLG F/2780 T2821 WOB 10K, RPM 70, TQ ON/OFF BTM 3/1, SPM #1 70, 315 GPM, SPP ON/OFF BTM 926/850, MUD MTR 50 RPM, STARTED AIR JAMMERS @ 01:30 W/250 CFM, INCREASED TO 700 CFM, NO RETURN
	3:00 - 5:30	2.50	DRLIN1	04	D	X		WAITING ON WATER, WORKING PIPE
	5:30 - 6:00	0.50	DRLIN1	02	B	P		DRLG F/2821- 2840' WOB 10K, RPM 70, TQ ON/OFF BTM 3/1, SPM #1 70, 315 GPM, SPP ON/OFF BTM 926/850, MUD MTR 50 RPM, INCREASE TO 1000 CFM AND NO RETURNS.
	6:00 - 6:30	0.50	DRLIN1	04	D	X		SHUT DOWN PUMPS AND WORK PIPE 450 CFM
	6:30 - 7:00	0.50	DRLIN1	05	G	P		BLEED AIR PRESSURE & PULL 6 STD PIPE
	7:00 - 10:00	3.00	DRLIN1	04	D	P		TRIED TO GET RETURNS W/ 450, 700, 1000, 1600 CFMS. GOT AIR RETURNS NO FLUID, STAGE IN HOLE 3 STDS & REGAIN RETURNS W/ 1600 CFM & 135 PM WENT TO BOTTOM GOT CIRC W/ 450 GPM
	10:00 - 11:30	1.50	DRLIN1	02	B	P		DRLG F/ 2840 T/2865, WOB 5/10K, CFM 1250/1600, GPM 420/470, PUMP #2 60 SPM, M/M 145 RPM, RPM 70, SPP ON/OFF BTM 1340/650, TQ ON/OFF BTM 5/1
	11:30 - 12:00	0.50	DRLIN1	02	B	P		ESTABLISH RETURNS W/1600 CFM, 10 SPM, THEN WENT TO 1300 CFM, 50 SPM= 425 GPM

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	12:00 - 0:00	12.00	DRLIN1	02	B	P		DRLG F/2840 T/3365, WOB 5/10, CFM 1200/1600, GPM 454/515, M/M 72/82 RPM, SPM #1 60, RPM70
8/22/2008	0:00 - 7:00	7.00	DRLIN1	02	B	P		DRLG F/3365 T/3713, WOB 10, CFM 900/1600, GPM 270, TOTAL GPM WITH AIR 400/454, PUMP #2 60 SPM, M/M 70, RPM 70, SPP ON/OFF 1200/ 800, TQ ON/OFF 5/1
	7:00 - 7:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	7:30 - 10:30	3.00	DRLIN1	02	B	P		DRLG F/3713-3840, WOB 10, CFM 900/1600, GPM 270, TOTAL GPM WITH AIR 400/454, PUMP #2 60 SPM, M/M 70, RPM 70, SPP ON/OFF 1200/ 800, TQ ON/OFF 5/1
	10:30 - 11:00	0.50	DRLIN1	04	F	P		CIRC SAMPLES.
	11:00 - 13:30	2.50	DRLIN1	09	C	P		PULL 2STDS HELD SAFETY MTG WITH GYRO HAND, RIG UP AND RUN GYRO ON SURVEY LINE AND SURVEY F/3650' @100' INTERVALS TO SURFACE
	13:30 - 17:00	3.50	DRLIN1	05	B	P		TRIP OUT OF HOLE L/D XPULSE, MONEL,2-REAMERS, MOTOR AND BIT. FOR CORING.
	17:00 - 18:30	1.50	DRLIN1	07	B	P		CHANGE OUT SAVER SUB ON TOP DRIVE F/ 4 1/2 XH TO 4 1/2 IF CHANGE OUT ELEVATORS FROM 4 1/2 - 5"
	18:30 - 20:30	2.00	DRLIN1	05	A	P		PICK UP CORE BARREL & PRESSURE TEST SAME
	20:30 - 21:00	0.50	DRLIN1	05	A	P		RIG UP WEATHERFORD LAY DOWN MACHINE HELD SAFETY MEETING BEFORE PICKING UP 5" DP
	21:00 - 23:30	2.50	DRLIN1	05	A	P		PICK UP 6 1/2 DC & 5" DP
	23:30 - 0:00	0.50	DRLIN1	04	D	P		BREAK CIRC. WITH 150 CFM & 950 PSI, STROKED PUMP 50 SPM
8/23/2008	0:00 - 0:30	0.50	DRLIN1	04	A	P		FIL PIPE WITH AIR AND FLUID.
	0:30 - 2:30	2.00	DRLIN1	05	A	P		PICK UP 5" DRILL PIPE
	2:30 - 3:00	0.50	DRLIN1	04	A	P		DISPLACED HOLE WITH AIR, FOUND WASH OUT AND A TOTAL OF 3 BAD JTS.
	3:00 - 4:00	1.00	DRLIN1	05	A	S		LAYED DOWN 3 BAD JTS. AND REPLACE WITH 3 GOOD JTS.
	4:00 - 5:30	1.50	DRLIN1	04	A	P		CIRCULATE HOLE WITH AERIATED MUD, GETTING PARCIAL RETURNS, RIG UP WIRELINE
	5:30 - 7:00	1.50	DRLIN1	08	H	P		L/D 1 JT. DRILL PIPE & RIG UP WIRELINE TO RETRIEVE BIT INSERT, RUN BIT INSERT BACK IN HOLE
	7:00 - 8:00	1.00	DRLIN1	04	A	P		HELD SAFTEY MEETING W/ CORE HANDS, ESTABLISH RETURNS
	8:00 - 9:00	1.00	DRLIN1	08	H	P		CORE 24' PUMPING 750CFM @ 30 SPM W/ 430 PSI
	9:00 - 11:30	2.50	DRLIN1	08	H	S		ATTEMPT TO RETRIEVE 24' OF CORE W/ WIRELINE, ATEMPT FAILED, PUMP DOWN DRILL STRING & ATTEMPT TO RETRIEVE CORE AGAIN, ATTEMPT FAILED
	11:30 - 14:30	3.00	DRLIN1	05	A	S		TRIP OUT OF HOLE W/ CORE BARREL AND SAMPLE
	14:30 - 15:30	1.00	DRLIN1	05	B	S		CLEAN OUT SHALE F/ TOP OF CORE BARREL, CHANGE REAL ROD & CHECK BIT
	15:30 - 21:00	5.50	DRLIN1	05	A	P		TRIP IN HOLE TO DRILL NEXT CORE, LOOKING FOR A WASH IN DC'S & DP, WASH & REAM TIGHT SPOTS BETWEEN 2450 & 2900
	21:00 - 23:30	2.50	DRLIN1	04	D	P		TRY UNLOADING HOLE WITH AIR & MUD STRING PRESSURED UP,

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	23:30 - 0:00	0.50	DRLIN1	10	C	P		RIG UP WIRELINE TO PULL CORE BARREL, TOP OF CORE BARREL WAS COVERED UP
8/24/2008	0:00 - 2:30	2.50	DRLIN1	05	B	P		TOOH, PLUG CORE BARREL,
	2:30 - 5:00	2.50	DRLIN1	05	B	P		CORE BARREL PLUGGED WITH LCM, CLEAN OUT INTER BARREL, RUN ACTIVE SYSTEM OVER SHAKERS TO CLEAN MUD
	5:00 - 6:00	1.00	DRLIN1	05	A	P		TRIP IN HOLE WITH BHA & 4 STDS. OF DRILL PIPE, BREAK CIRCULATION
	6:00 - 6:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	6:30 - 11:30	5.00	DRLIN1	05	A	P		FINISH TRIP IN HOLE, REAM LAST 60' TO BOTTOM
	11:30 - 12:00	0.50	DRLIN1	02	A	P		DRILL F/ 3,864' T/ 3,920' 2-5K WOB, 1600 CFM & 20 SPM #1 PUMP = 336 GPM
	12:00 - 13:30	1.50	DRLIN1	08	H	P		RUN IN HOLE W/ WIRELINE, RETRIEVE BIT INSERT & REPLACE W/ CORE BARREL
	13:30 - 15:00	1.50	DRLIN1	08	H	P		ESTABLISH RETURNS, CORE #2 F/ 3,920' T/ 3,944' 7K WOB, 50 RPM'S PUMPING 1300 CFM & 10 SPM = 245 GPM
	15:00 - 16:30	1.50	DRLIN1	08	H	P		RUN IN HOLE WITH WIRELINE, RETRIEVE CORE BARREL RECOVERED 24' & REPLACE WITH NEW ONE
	16:30 - 18:00	1.50	DRLIN1	08	H	P		ESTABLISH RETURNS, CORE #3 F/ 3,944' T/ 3,968' 7K WOB, 50 RPM'S PUMPING 1300 CFM & 10 SPM = 245 GPM
	18:00 - 20:00	2.00	DRLIN1	08	H	P		RETRIEVE CORE & RECOVERED 13.7', RUN NEW BARREL IN HOLE
	20:00 - 21:00	1.00	DRLIN1	08	H	P		BRK CIRC. & CORE #4 F/ 3965 T/ 3973 WOB 10K, RPM 50 - 60, 1050 CFM, 30 SPM,780 PSI, 287 GPM CORE BARREL JAMMED
	21:00 - 22:30	1.50	DRLIN1	08	H	P		R/U WIRELINE & RETRIEVE CORE, RECOVERED 5.5', RUN CORE BARREL IN HOLE
	22:30 - 0:00	1.50	DRLIN1	08	H	P		BRK CIRC. & CORE F/ 3973 T/3978 WOB 4/10K, RPM 50, 1050 CFM, 30 SPM, 295 GPM,
8/25/2008	0:00 - 1:30	1.50	DRLIN1	08	H	P		CORING #5 F/3973 T/3997 WOB 4-8K RPM 50 CFM 1000 30 SPM PSI 570, GPM 285,
	1:30 - 3:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL, RECOVERED 11', 45%, RUN CORE BARREL BACK IN HOLE
	3:00 - 4:30	1.50	DRLIN1	08	H	P		CORING #6 F/3997-4020' WOB 4-8K RPM 50 CFM 800 25 SPM PSI 550, GPM 235, 50% RETURNS
	4:30 - 6:30	2.00	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL, RECOVERED 20.3 ', 88 % RUN CORE BARREL BACK IN HOLE
	6:30 - 8:30	2.00	DRLIN1	08	H	P		CORING #7 F/4020' T/4035, WOB 4-8K, RPM 50, DRILL WITH WATER ONLY 30 SPM, 135 GPM
	8:30 - 10:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL, RECOVERED 13.2', 88%
	10:00 - 13:00	3.00	DRLIN1	08	H	P		CORE #8 F/4035 T/4052', WOB 5-12, RPM 40, SPM 40/45 SPM, 179/202 GPM
	13:00 - 14:00	1.00	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL,RECOVERED 17.6, 103%
	14:00 - 18:00	4.00	DRLIN1	04	D	P		GOT RETURNS W/1600 CFM, 10 SPM, FILLED ALL SURFACE TANKS & RESERVE PIT
	18:00 - 18:30	0.50	DRLIN1	08	H	P		CORE #9 F/4052 T/4070', WOB 7-8K, RPM 49, PSI 27, SPM 40
	18:30 - 20:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL,RECOVERED 13.8, 76%
	20:00 - 21:00	1.00	DRLIN1	08	H	P		CORE #10, F/4070 T/4085 WOB 5-13, PSI 27/500, TQ 2/1, 45 RPM

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	21:00 - 22:30	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE CORE BARREL,RECOVERED 0.0' 0%
	22:30 - 0:00	1.50	DRLIN1	05	A	P		TOOH FOR CORE BIT
8/26/2008	0:00 - 1:30	1.50	DRLIN1	05	A	P		TOOH FOR CORE BIT, CHANGE OUT CORE BITS,INSTALL INSERT BIT TO KEEP BARREL CLEAN
	1:30 - 4:00	2.50	DRLIN1	05	A	P		TIH TO CORE, HIT BRIDGE @ 2275
	4:00 - 6:00	2.00	DRLIN1	03	A	X		WASH & REAM F/2275 T/29
	6:00 - 8:00	2.00	DRLIN1	05	A	P		FINISH TRIP IN HOLE REAM 60' TO BTM
	8:00 - 8:30	0.50	DRLIN1	04	D	P		GOT RETURNS W/1800 CFM & 10 SPM
	8:30 - 10:00	1.50	DRLIN1	08	H	P		R/U WIRELINE RETRIEVE INSERT BIT & RUN CORE BARREL
	10:00 - 11:00	1.00	DRLIN1	08	H	P		CORE #11 F/4066 T/4076 WOB 12, RPM 50 SPM 50
	11:00 - 11:30	0.50	DRLIN1	03	A	P		BACK REAM 15' TO PULL CORE BARREL
	11:30 - 13:30	2.00	DRLIN1	08	H	P		R/U WIRELINE, PULL CORE #11 RECOVERED 3' SANDSTONE
	13:30 - 19:00	5.50	DRLIN1	02	A	P		DRLG F/ 4076 T/ 4160 WOB 9 CFM 1100, GPM 350, PUMP#1 40 SPM, ON/OFF BTM 600/330
	19:00 - 20:00	1.00	DRLIN1	04	A	P		CIRC & CONDITION HOLE TO LAY DOWN 5" R/U LAYDOWN MACHINE HELD SAFETY MEETING WEATHERFORD
	20:00 - 22:30	2.50	DRLIN1	05	B	P		LAY DOWN 5" DP FRIST TO STD TIGHT
	22:30 - 23:00	0.50	DRLIN1	05	B	P		PULL ROTATING HEAD
	23:00 - 0:00	1.00	DRLIN1	05	B	P		LAY DOWN BHA
8/27/2008	0:00 - 1:30	1.50	DRLIN1	05	A	P		LAY DOWN DRILL 5" PIPE & COLLARS
	1:30 - 2:00	0.50	DRLIN1	05	A	P		RIG DOWN LAWDOWN MACHINE
	2:00 - 4:00	2.00	DRLIN1	08	A	P		R/U HALCO LOGGERS, HELD SAFETY MEETING, LOGGING, HIT BRIDGE @ 1960, FLUID LEVEL @ 1600'
	4:00 - 5:30	1.50	DRLIN1	08	A	X		HALCO PULL OUT OF HOLE , RIG DOWN
	5:30 - 7:00	1.50	DRLIN1	05	A	S		CHANGE OUT SAVER SUB ON TOP DRIVE,
	7:00 - 12:00	5.00	DRLIN1	05	F	P		Load out 5" coring DP. Strap and pickup 27 joints DP
	12:00 - 12:30	0.50	DRLIN1	06	A	P		Rig Service
	12:30 - 14:30	2.00	DRLIN1	07	B			Rig repair - hydraulic hose on lift cylinder fro grabber on top drive
	14:30 - 22:00	7.50	DRLIN1	03	A	X		Make up bit, bit sub, 1 DC and TIH w/ HWDP & DP, tagged bridge at 1960'. Ream through bridges at 1960', 2027', 2276'-2858'
	22:00 - 22:30	0.50	DRLIN1	05	F	X		TIH, tagged ledge/bridge at 3331'
	22:30 - 0:00	1.50	DRLIN1	03	A	X		Wash and ream 3331' - 3525' w/ 1400 scfm air and 90 gpm water
8/28/2008	4:00 - 7:00	3.00	DRLIN1	04	A	X		Circulate and condition hole for logs at 4160
	7:00 - 7:30	0.50	DRLIN1	08	F	P		Rig up Weatherford for slim hole logging. tool and log through DP. Loggers TD 4168'. Rig TD 4160'. No correction were made
	7:30 - 10:00	2.50	DRLIN1	08	F	P		Log well w/ Weatherford's slim hole Gamma Ray and collar locator log through DP. Loggers TD 4168'. Rig TD 4160'. No correction were made
	10:00 - 13:30	3.50	DRLIN1	05	C	P		TOOH w/ bit #6, LD 6.25" DC, bit & bit sub
	10:05 - 4:00		DRLIN1	03	E	X		Wash and ream 3331' - 4160', WOB 10K, AIR = 1400 SCFM, GPM = 90, PUMP #1 = 20 SPM, PUMP #2 = 0 SPM, 40 RPM, PRESS ON - OFF BTM = 350 PSI , TORQ ON - OFF BTM =5K - 12K, MUD WT = 8.4, VIS = 27

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	13:30 - 14:30	1.00	DRLIN1	05	C	X		TIH open ended for plugging operations, tagged bridge at 1960'
	14:30 - 15:00	0.50	DRLIN1	05	C	X		Hit bridge at 1960, tried to work through, unsuccessful, pickup and install rotating head
	15:00 - 22:30	7.50	DRLIN1	03	E	X		Wash and ream through bridges at 1960, 2020', 2323', 2430', 2510', and several others
	22:30 - 23:30	1.00	DRLIN1	05	F	X		TIH 3100' - 3400'
	23:30 - 23:30	0.00	DRLIN1	03	E	X		Continue to wash and ream through tight spot from 3400' - 3420'
8/29/2008	0:00 - 1:30	1.50	DRLIN1	03	E	X		Wash and ream 3400' - 3600', WOB 10K, AIR = 1400 SCFM, GPM = 90, PUMP #1 = 20 SPM, PUMP #2 = 0 SPM, 50 RPM, PRESS ON - OFF BTM = 350 PSI , TORQ ON - OFF BTM =5K - 8K, MUD WT = 8.4, VIS = 27
	1:30 - 2:30	1.00	DRLIN1	04	A	X		Circulate and condition hole w/ 1500 scfm airand 90 GPM water
	2:30 - 3:30	1.00	DRLIN1	04	A	X		HSM w/ Superior Cementers and rig up
	3:30 - 4:30	1.00	DRLIN1	15	E	P		Mix and pump 175 sack class "G" cement (29.2 Bbls) balance formation isolation plug from 3600' - 3300'
	4:30 - 5:00	0.50	DRLIN1	05	C	P		TOOH 3 stands to 3309'
	5:00 - 6:30	1.50	DRLIN1	04	A	P		Circulate at 3309' to clear excess cement from wellbore
	6:30 - 7:00	0.50	DRLIN1	15	E	P		Mix and pump 170 sack class "G" cement (28.4 Bbls) balance formation isolation plug from 3300' - 3000'
	7:00 - 7:30	0.50	DRLIN1	05	C	P		TOOH 8 stands to 2552'
	7:30 - 9:00	1.50	DRLIN1	04	A	P		Circulate and condition abd dump 5 gallons polyswell down drill pipe
	9:00 - 9:30	0.50	DRLIN1	15	E	P		Mix and pump 50 sack (18 bbls) Thix-O-Tropic cement to try healing up loss circulation zone
	9:30 - 14:30	5.00	DRLIN1	04	A	P		TOOH 4 stands to get above cement and circulate w/ 1200 scfm air and 90 GPM water
	14:30 - 15:00	0.50	DRLIN1	05	C	P		TIH to 2615' and did not tag any cement in well bore, pulled back to 2488'
	15:00 - 17:00	2.00	DRLIN1	04	A	P		Circulate w/ 1200 scfm air for 1 hour after circulate was acheived
	17:00 - 17:30	0.50	DRLIN1	15	E	P		Mix and pump 50 sacks (18 bbls) Thix-O-Tropic cement to try healing loss circulation zone
	17:30 - 18:00	0.50	DRLIN1	05	C	P		TOOH 6 stands to get above cement
	18:00 - 0:00	6.00	DRLIN1	12	B	P		Wait on cement to set at 1966'
8/30/2008	0:00 - 1:00	1.00	DRLIN1	12	B	X		Work pipe 1891' - 1986' while waiting on cement to set
	1:00 - 1:30	0.50	DRLIN1	05	C	X		TIH, tagged at 2506'
	1:30 - 3:30	2.00	DRLIN1	04	A	X		Blow hole dry w/ 1200 scfm air at 2488'
	3:30 - 4:00	0.50	DRLIN1	15	A	X		Mix and pump 100 sacks class "G" w/ .25 #/sk Superflake and 2% CaCl2, yeild 1.15, Water 5.0 gallons per sack
	4:00 - 4:30	0.50	DRLIN1	05	C	X		TOOH 6 stands to 1986'
	4:30 - 7:00	2.50	DRLIN1	12	B	X		Work pipe 1891' - 1986' while waiting on cement to set
	7:00 - 9:30	2.50	DRLIN1	05	C	X		TIH tagged at 2506', had to use air from 2320' - 2506'
	9:30 - 10:00	0.50	DRLIN1	04	A	X		Circulate while rigging down Superior cementing services
	10:00 - 11:30	1.50	DRLIN1	05	C	X		TOOH for directional tools. Laid down bottom joint of DP, pin and shoulder was well worn from working through bridges

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	11:30 - 13:00	1.50	DRLIN1	06	D	P		Cut drilling line
	13:00 - 13:30	0.50	DRLIN1	06	A	P		Rig Service
	13:30 - 14:30	1.00	DRLIN1	05	A	P		Lay down stand drill collars
	14:30 - 19:00	4.50	DRLIN1	05	A	P		Pickup and make up Weatherfords directional tools and TIH
	19:00 - 19:30	0.50	DRLIN1	05	A	P		Install rotating head
	19:30 - 20:00	0.50	DRLIN1	05	A	P		TIH, tagged bridge at 2200'
	20:00 - 0:00	4.00	DRLIN1	03	E	P		Wash and ream 2200' - 2506', WOB 5k - 10K, AIR = 1000 SCFM, GPM = 265, PUMP #1 = 82 SPM, PUMP #2 = 0 SPM, RPM = 40, PRESS ON - OFF BTM = 400 PSI , TORQ ON - OFF BTM =1K - 6K, MUD WT = 8.4, VIS = 27
8/31/2008	0:00 - 0:30	0.50	DRLIN1	05	H	X		Bit plugged, TOOH to un-plug
	0:30 - 1:00	0.50	DRLIN1	05	H	X		Pull rotating head
	1:00 - 1:30	0.50	DRLIN1	05	H	X		TOOH to monel DC
	1:30 - 3:30	2.00	DRLIN1	05	H	X		Un-plug bit and change out motors and scribe. Bit full of cement and shale
	3:30 - 4:30	1.00	DRLIN1	05	H	X		TIH
	4:30 - 5:00	0.50	DRLIN1	05	H	X		Install rotating head
	5:00 - 14:00	9.00	DRLIN1	03	E	X		Wash and ream 1836' - 2060', WOB 5k - 10K, AIR = 1000 SCFM, GPM = 180, PUMP #1 = 50 SPM, PUMP #2 = 0 SPM, RPM = 40, PRESS ON - OFF BTM = 350 PSI , TORQ ON - OFF BTM =1K - 4K, MUD WT = 8.4, VIS = 27 Tagged cement at 2697' - 3044'. Fell free from plug and tagged at 3700'
	14:00 - 16:00	2.00	DRLIN1	05	C	S		TOOH w/ directional tools
	16:00 - 19:30	3.50	DRLIN1	05	C	S		TIH open ended. Picked up bad joint from previous plugging job for bottom joint. Tagged at 3700' and fell through, went in to 3723', w/ 30k set down weight, it was sliding slowly down.
	19:30 - 20:00	0.50	DRLIN1	04	A	S		Attempted to break circulation, pipe pressured up. Plugged pipe, could not break loose.
	20:00 - 20:30	0.50	DRLIN1					
	20:30 - 21:30	1.00	DRLIN1	05	C	S		TOOH to un-plug pipe. Un-plug bottom joint of DP, had about 10' cement and shale in pipe. Pull rotating head
	21:30 - 22:00	0.50	DRLIN1	05	C	S		Clean rig floor
	22:00 - 23:30	1.50	DRLIN1	05	C	S		TIH to 3700'
	23:30 - 0:00	0.50	DRLIN1	04	A	S		Break circulation w/ air and circulate while rigging up cementers. Takes about 45 minutes to acheive circulation after sending air down hole
9/1/2008	0:00 - 1:30	1.50	DRLIN1	04	A	X		Circulate while rigging up cementers
	1:30 - 2:30	1.00	DRLIN1	15	A	X		Pump 175 sacks plug at 3714'
	2:30 - 3:30	1.00	DRLIN1	04		X		TOOH 6 stands and wash through pipe and continue to pull total of 14 stands
	3:30 - 7:30	4.00	DRLIN1	12	B	P		Wait on cement plug to set
	7:30 - 9:30	2.00	DRLIN1	05	C	P		TIH to tag cement. Driller created a birds nest in drilling line
	9:30 - 10:00	0.50	DRLIN1	06	A	S		Rig Service
	10:00 - 12:00	2.00	DRLIN1	07	A	S		Perform JSA do to drum back lash. Set top drive in slips and came down slowly, straighten drill line and then came uo to dock top drive in upper docking point
	12:00 - 12:30	0.50	DRLIN1	07	A	S		Stand 1 stand back in derrick to assist in calibrating top drive and draw works

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	12:30 - 14:30	2.00	DRLIN1	03	E	P		Continue to clean out to plug, tagged at 3246'
	14:30 - 15:00	0.50	DRLIN1	15	E	P		Pump 170 sack cement plug at 3246'
	15:00 - 17:30	2.50	DRLIN1	05	A	P		TOOH for directional tools
	17:30 - 18:00	0.50	DRLIN1	05	A	P		Pull rotating head
	18:00 - 18:30	0.50	DRLIN1	05	A	P		Inspect and lay down single joint of drill pipe and put extra bolts in flow meter
	18:30 - 20:00	1.50	DRLIN1	05	A	P		Make up bit, scribe mud motor, set MWD tool and TIH w/ directional tools
	20:00 - 20:30	0.50	DRLIN1	05	A	P		Install rotating head
	20:30 - 22:00	1.50	DRLIN1	05	A	P		TIH, tagged w/ 20k at 2659'.
	22:00 - 0:00	2.00	DRLIN1	02	E	P		Drill cemet 2559' - 2865', WOB 5k - 8K, AIR = 1000 SCFM, GPM = 320, PUMP #1 = 0 SPM, PUMP #2 = 70 SPM, RPM = 40, PRESS ON - OFF BTM = 450 PSI , TORQ ON - OFF BTM =3K - 2K, MUD WT = 8.3, VIS = 28, Footage = 206', FPH = 103
9/2/2008	0:00 - 1:30	1.50	DRLIN1	02	G	P		Drill cemet 2865' - 2992', WOB 5k - 8K, AIR = 1000 SCFM, GPM = 320, PUMP #1 = 0 SPM, PUMP #2 = 70 SPM, RPM = 40, PRESS ON - OFF BTM = 450 PSI , TORQ ON - OFF BTM =3K - 2K, MUD WT = 8.3, VIS = 28, Footage = 127', FPH = 84.67
	1:30 - 2:30	1.00	DRLIN1	02	G	P		Work pipe to get good MTF
	2:30 - 13:30	11.00	DRLIN1	02	D	P		Time Drill 2992' - 3045', WOB 2k - 3K, AIR = 1000 SCFM or 153 GPM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 450 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.3, VIS = 28, Footage = 53', FPH = 4.8
	13:30 - 14:00	0.50	DRLIN1	06	A	P		Rig Service
	14:00 - 0:00	10.00	DRLIN1	02	D	P		Time Drilling and sliding 3045' - 3099', WOB 5k - 10K, AIR = 1000 - 1100 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 309 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.7, VIS = 34, Footage = 53', FPH = 5.4
9/3/2008	0:00 - 6:30	6.50	DRLIN1	02	D	P		Slide Drilling 3099' - 3205', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 356 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.5, VIS = 34, Footage = 106', FPH = 16.3
	6:30 - 8:30	2.00	DRLIN1	02	D	P		Rotate Drilling 3205' - 3265', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 360 PSI , TORQ ON/OFF BTM =2-3K, MUD WT = 8.5, VIS = 34, Footage = 106', FPH = 16.3
	8:30 - 9:00	0.50	DRLIN1	02	D	P		Slide Drilling 3265' - 3297', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.5, VIS = 34, Footage = 32', FPH = 64
	9:00 - 11:00	2.00	DRLIN1	02	D	P		Rotate Drilling 3297' - 3391', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 360 PSI , TORQ ON/OFF BTM =2-3K, MUD WT = 8.5, VIS = 34, Footage = 94', FPH = 47

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	11:00 - 11:30	0.50	DRLIN1	02	D	P		Slide Drilling 3391' - 3405', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.5, VIS = 34, Footage = 14', FPH = 28
	11:30 - 13:30	2.00	DRLIN1	02	D	P		Rotate Drilling 3405' - 3486', WOB 3K - 8K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 360 PSI , TORQ ON/OFF BTM =2K - 4k, MUD WT = 8.5, VIS = 34, Footage = 81', FPH = 40.5
	13:30 - 14:00	0.50	DRLIN1	02	D	P		Slide Drilling 3486' - 3508', WOB 5K - 9K, AIR = 1000 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 22', FPH = 44
	14:00 - 15:30	1.50	DRLIN1	02	D	P		Rotate Drilling 3508' - 3549', WOB 3K - 8K, AIR = 1100 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 396 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 41', FPH = 27.3
	15:30 - 17:00	1.50	DRLIN1	02	D	P		Slide Drilling 3549' - 3612', WOB 5-9K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 400 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 63', FPH = 42
	17:00 - 17:30	0.50	DRLIN1	06	A	P		Rig Service
	17:30 - 18:00	0.50	DRLIN1	02	D	P		Rotate Drilling 3612' - 3644', WOB 3K - 9K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 494-396 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 32', FPH = 64
	18:00 - 19:00	1.00	DRLIN1	02	D	P		Slide Drilling 3644' - 3676', WOB 20K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 353-297 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 31', FPH = 31
	19:00 - 20:30	1.50	DRLIN1	02	D	P		Rotate Drilling 3676' - 3739', WOB 6K - 15K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 396-342 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 63', FPH = 42
	20:30 - 22:00	1.50	DRLIN1	02	D	P		Slide Drilling 3739' - 3788', WOB 6-10K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 353-297 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 49', FPH = 32.6
	22:00 - 23:00	1.00	DRLIN1	02	D	P		Rotate Drilling 3788' - 3833', WOB 6-15K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 40, MOTOR RPM = 132, PRESS ON - OFF BTM = 430-344 PSI , TORQ ON/OFF BTM =2-4K, MUD WT = 8.6, VIS = 34, Footage = 63', FPH = 42

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	23:00 - 0:00	1.00	DRLIN1	02	D	P		Slide Drilling 3833' - 3845', WOB 20K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 132, PRESS ON - OFF BTM = 396-350 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 12', FPH = 12
9/4/2008	0:00 - 5:00	5.00	DRLIN1	02	D	P		Slide Drilling 3845' - 3967', WOB 5-15K, AIR = 1200 SCFM, GPM = 337, PUMP #1 = 0 SPM, PUMP #2 = 75 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 396-350 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 122', FPH = 24.4
	5:00 - 6:30	1.50	DRLIN1	04	C	P		Circulate bottoms up
	6:30 - 7:30	1.00	DRLIN1	05	A	P		TOOH to 3967' - 2951' (10 stands)
	7:30 - 13:00	5.50	DRLIN1	08	F	P		Run Gamma Ray log from 2985' - 3280'
	13:00 - 15:30	2.50	DRLIN1	05	A	P		TOOH, pull rotating head
	15:30 - 18:00	2.50	DRLIN1	05	A	P		Change BHA. L/D NMDC, Gamma Ray, break bit
	18:00 - 18:30	0.50	DRLIN1	06	A	P		Rig Service
	18:30 - 0:00	5.50	DRLIN1	05	A	P		Make up bit, adjust bend in motor from 1.83 to 2.12 and scribe same. Pickup 3 DC and rack in derrick, TIH and pickup 6 DC. Install rotating head.
9/5/2008	0:00 - 1:30	1.50	DRLIN1	05	A	P		TIH, pickup total of 9 DC and install rotating head
	1:30 - 4:30	3.00	DRLIN1	04	D	P		Fill pipe and break circulation, had to increase air to 1600 scfm. As soon as we started getting circulation one of the air compressors went down
	4:30 - 9:00	4.50	DRLIN1	03	E	S		Wash and ream 20' to bottom. Continue to work toward bottom w/ 1000 scfm air and 105 gpm. Attempt to slide at 3967', unseccessful, wait on ruck to change out compressors
	9:00 - 11:30	2.50	DRLIN1	02	D	P		Slide Drilling 3967' - 4011', WOB 5-15K, AIR = 1600 SCFM, GPM = 225, PUMP #1 = 0 SPM, PUMP #2 = 50 SPM, RPM = 0, MOTOR RPM = 117, PRESS ON - OFF BTM = 268 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 44', FPH = 17.6
	11:30 - 12:00	0.50	DRLIN1	02	D	P		Rotate Drilling 4011' - 4018', WOB 20K - 25K, AIR = 1600 SCFM, GPM = 225, PUMP #1 = 0 SPM, PUMP #2 = 50 SPM, RPM = 40, MOTOR RPM = 117, PRESS ON-OFF BTM = 550-488 PSI , TORQ ON/OFF BTM =6-2K, MUD WT = 8.5, VIS = 35, Footage = 7', FPH = 14
	12:00 - 13:00	1.00	DRLIN1	02	D	P		Slide Drilling 4018' - 4020', WOB 5-65K, AIR = 1200-1600 SCFM, GPM = 225-292, PUMP #1 = 0 SPM, PUMP #2 = 50-65 SPM, RPM = 0, MOTOR RPM = 133, PRESS ON - OFF BTM = 4/4-268 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 4', FPH = 4
	13:00 - 13:30	0.50	DRLIN1	02	D	P		Rotate Drilling 4020' - 4028', WOB 25K - 75K, AIR = 1200 SCFM, GPM = 292, PUMP #1 = 0 SPM, PUMP #2 = 65-75 SPM, RPM = 35, MOTOR RPM = 133, PRESS ON-OFF BTM = 488-404 PSI , TORQ ON/OFF BTM =9-2K, MUD WT = 8.5, VIS = 35, Footage = 8', FPH = 16. Hard spot would not slide w/ 75k WOB
	13:30 - 14:00	0.50	DRLIN1	09	D	P		Circulate and directional survey

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	14:00 - 22:00	8.00	DRLIN1	02	D	P		Slide Drilling 4028' - 4082', WOB 5-70K, AIR = 1000 SCFM, GPM = 342, PUMP #1 = 0 SPM, PUMP #2 = 80 SPM, RPM = 0, MOTOR RPM = 138, PRESS ON - OFF BTM = 460-382 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 54', FPH = 6.75
	22:00 - 0:00	2.00	DRLIN1	04	C	P		Circulate hole prior to trip
9/6/2008	0:00 - 4:00	4.00	DRLIN1	05	A	S		TOOH, pull rotating head, LD NMDC and break bit
	4:00 - 4:30	0.50	DRLIN1	05	A	S		Monitor well, gas bubble excaping and let it vent
	4:30 - 5:00	0.50	DRLIN1	05	A	S		L/D Mud motor and NMDC, set MWD tools in v-door
	5:00 - 20:30	15.50	DRLIN1	12	E	S		Wait on directional tools
	20:30 - 23:00	2.50	DRLIN1	05	A	P		Pickup mud motor w/ 2.6 degree bend make up bit re-run #7, make up MWD tools and scribe, install MWD survey tool, pickup flex NMDC and make up
	23:00 - 23:30	0.50	DRLIN1	07	A	S		Repair hose on ST-80
	23:30 - 0:00	0.50	DRLIN1	05	A	P		TIH slow due to 2.6 bend hanging up on wall
9/7/2008	0:00 - 3:00	3.00	DRLIN1	05	A	P		TIH, slow due to bit hanging up on wall, tagged 40' fill
	3:00 - 4:00	1.00	DRLIN1	04	A	P		Break circulation, wash and ream 40' to bottom
	4:00 - 9:30	5.50	DRLIN1	02	D	P		Drilling sliding 4082' - 4155', WOB 18-25K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 139, PRESS ON - OFF BTM = 584 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 73', FPH = 13.3
	9:30 - 10:30	1.00	DRLIN1	04	C	P		Circulate and condition hole for trip
	10:30 - 11:00	0.50	DRLIN1	05	A	P		TOOH, tight at 4075', just above sharp bend, acts like coal sloughing in
	11:00 - 12:30	1.50	DRLIN1	05	A	S		Work tight hole 4075' - 4035', establish circulation while working tight hole
	12:30 - 14:30	2.00	DRLIN1	05	A	P		TOOH to change BHA
	14:30 - 15:30	1.00	DRLIN1	05	A	P		Break NMDC and mouse hole. Drain Motor and adjust motor to 2.12 degrees
	15:30 - 16:00	0.50	DRLIN1	05	A	P		Orient and scribe motor
	16:00 - 16:30	0.50	DRLIN1	06	A	P		Rig Service
	16:30 - 20:00	3.50	DRLIN1	05	A	P		TIH to 4077', install rotating head
	20:00 - 22:30	2.50	DRLIN1	03	D	P		Break circulation, wash and ream 4077' to
	22:30 - 23:00	0.50	DRLIN1	02	D	P		Drilli rotating 4155' - 4165', WOB 40K, AIR = 1800 SCFM, GPM = 243, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 700-500 PSI , TORQ ON/OFF BTM =4-2K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	23:00 - 0:00	1.00	DRLIN1	02	D	P		Drilling sliding 4165' - 4180', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 500-300 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 15', FPH = 15
9/8/2008	0:00 - 0:30	0.50	DRLIN1	02	D	P		Drilling sliding 4180' - 4186', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 500-300 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 15', FPH = 15

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	0:30 - 1:00	0.50	DRLIN1	02	D	P		Drilling rotating 4186' - 4196', WOB 25K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 535-512 PSI , TORQ ON/OFF BTM =8-3K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	1:00 - 3:00	2.00	DRLIN1	02	D	P		Drilling sliding 4196' - 4220', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 24', FPH = 12
	3:00 - 3:30	0.50	DRLIN1	02	D	P		Drilling rotating 4220' - 4230', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 522-512 PSI , TORQ ON/OFF BTM =8-3K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	3:30 - 5:00	1.50	DRLIN1	02	D	P		Drilling sliding 4230' - 4250', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 20', FPH = 13.3
	5:00 - 5:30	0.50	DRLIN1	02	D	P		Drilling rotating 4250' - 4260', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 522-512 PSI , TORQ ON/OFF BTM =8-3K, MUD WT = 8.6, VIS = 35, Footage = 10', FPH = 20
	5:30 - 7:00	1.50	DRLIN1	02	D	P		Drilling sliding 4260' - 4296', WOB 40K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 36', FPH = 24
	7:00 - 8:30	1.50	DRLIN1	02	D	P		Drilling rotating 4296' - 4311', WOB 25K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 40, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage = 15', FPH = 10
	8:30 - 11:00	2.50	DRLIN1	02	D	P		Drilling sliding 4311' - 4325', WOB 25-50K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 0, MOTOR RPM = 145, PRESS ON - OFF BTM = 537-523 PSI , TORQ ON/OFF BTM =0K, MUD WT = 8.6, VIS = 35, Footage = 14', FPH = 5.6
	11:00 - 15:30	4.50	DRLIN1	02	D	P		Drilling rotating 4325' - 4362', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 27, MOTOR RPM = 145, PRESS ON - OFF BTM = 582-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage = 37', FPH = 8.22, Run 3 directional surveys, Ream 4285' - 4340' before and after survey. Tried to pull up to 4323', tight pulled up to 190k, 35k over pickup weight. String weight Pickup 155k, Slack off 109k, Rotating 131k
	15:30 - 16:00	0.50	DRLIN1	03	B	S		Ream and back ream 4270' - 4362' to help control deviation
	16:00 - 16:30	0.50	DRLIN1	06	A	P		Rig Service

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	16:30 - 0:00	7.50	DRLIN1	02	D	P		Drilling rotating 4362' - 4457', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 27, MOTOR RPM = 145, PRESS ON - OFF BTM = 582-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage =141', FPH = 18.8
9/9/2008	0:00 - 3:30	3.50	DRLIN1	02	D	P		Drilling rotating 4457' - 4503', WOB 25-30K, AIR = 1800 SCFM, GPM = 246, PUMP #1 = 0 SPM, PUMP #2 = 57 SPM, RPM = 27, MOTOR RPM = 145, PRESS ON - OFF BTM = 582-523 PSI , TORQ ON/OFF BTM = 6-3K, MUD WT = 8.6, VIS = 35, Footage =141', FPH = 18.8
	3:30 - 5:00	1.50	DRLIN1	04	C	P		Circulate and condition hole
	5:00 - 5:30	0.50	DRLIN1	05	E	P		TOOH, tight at 4396'
	5:30 - 11:00	5.50	DRLIN1	05	E	P		Work tight hole at 4349', 4331', 4321', 4256', 4246', 4239' and 4172'. Work through tight spot while establishing circulation w/ air and mud. Returns were heavy w/ coal chunks 1/8" size and shale chunks up 1 1/2" x 1" size
	11:00 - 11:30	0.50	DRLIN1			S		Line up and check air jet line and verify suction. Pull rotating head
	11:30 - 12:00	0.50	DRLIN1	06	A	P		Rig service. Change hydraulic hose on ST-80
	12:00 - 13:00	1.00	DRLIN1	05	A	P		TOOH
	13:00 - 15:30	2.50	DRLIN1	05	A	P		Break bit, L/D directional tools
	15:30 - 18:00	2.50	DRLIN1	05	F	P		Makeup BHA as follows: Bit, bit sub, 1 - 6 1/2 DC, stabilizer, 2 - 6 1/2" DC and push pipe
	18:00 - 20:30	2.50	DRLIN1	06	D	P		Cut Drilling Line
	20:30 - 0:00	3.50	DRLIN1	05	F	P		TIH (SLM), Install rotating head, tagged bridge at 4065'. Air hands is having trouble getting booster running
9/10/2008	0:00 - 20:30	20.50	DRLIN1	12	E	P		W.O./ AIR BOOSTER & INSTALL NEW BOOSTER
	20:30 - 21:30	1.00	DRLIN1	07	A	X		REPLACE HYDRALIC HOSE ON IRON ROUGHNECK BROKE ON FIRST STD
	21:30 - 0:00	2.50	DRLIN1	05	F	P		TRIP IN HOLE TO REAM ALL TIGHT SPOTS INSTALL ROTATING HEADTAG @ 4058
9/11/2008	0:00 - 12:00	12.00	DRLIN1	03	A	P		REAMING F/4058 T/4503 WITH 1600 TO 1750 CFM, 20 SPM 336 - 359 GPM, 25 -50 RPM TORQUE 3-10K, WOB 5 -20K, TIGHT @ 4089, 4105, 4129, 4203, 4251
	12:00 - 12:30	0.50	DRLIN1	04	G	P		CIRC AND PUMP HIGH VIS SWEEP.
	12:30 - 14:00	1.50	DRLIN1	05	E	P		WIPER TRIP AND BACK REAM 4328, 4279, 4267 AND 4259
	14:00 - 17:00	3.00	DRLIN1	03	A	P		REAMING F/4058 T/4503 WITH 1600 TO 1750 CFM, 20 SPM 336 - 359 GPM, 25 -50 RPM TORQUE 3-10K, WOB 5 -20K, TIGHT @ 4089, 4105, 4129, 4203, 4251
	17:00 - 19:30	2.50	DRLIN1	05	E			WIPER TRIP & BACK REAM F/4503 T/ 4058
	19:30 - 22:30	3.00	DRLIN1	03	A			REAMING F/4058 T/4503 WITH 1600 TO 1750 CFM, 20 SPM 336 - 359 GPM, 25 -50 RPM TORQUE 3-10K, WOB 5 -20K, TIGHT @ 4089, 4105, 4129, 4203, 4251
	22:30 - 0:00	1.50	DRLIN1	05	E			WIPER TRIP & BACK REAM F/4503 T/ 4058
9/12/2008	0:00 - 0:30	0.50	DRLIN1	05	E	P		4 STD WIPER TRIP F/ 4503 T/ 4058
	0:30 - 1:00	0.50	DRLIN1	04	C			CIRC. & COND. HOLE FOR 7" CSG
	1:00 - 10:00	9.00	DRLIN1	05	D			PULL 10 STD & LAY DOWN DP TO RUN 7" CSG PULL WEAR BUSHING, CHANGE BAILS AND ELEVATORS.

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	10:00 - 12:00	2.00	DRLIN1	11	A	P		HELD SAFETY MTG WITH CASING CREWS AND RIGGED CASING EQUIPMENT.
	12:00 - 0:00	12.00	DRLIN1	11	B	P		RUN 7" 23# J-55 LTC, WORKING CSG. THROUGH TIGHT HOLE @ 4058 TO 4170
9/13/2008	-		DRLIN1	13	C	P		
	0:00 - 3:30	3.50	DRLIN1	11	B	P		RUN 7" 23# J 55 LTC , WORKING TIGHT HOLE F/4170 T/ 4490.
	3:30 - 7:00	3.50	DRLIN1	04	A	P		CIRC HOLE TO CEMENT, RIG DOWN WEATHERFORD CASERS, HELD SAFETY MEETING W/SUPERIOR CEMENTERS & RIG UP CEMENTERS
	7:00 - 9:30	2.50	DRLIN1	15	A	P		CEMENT (FIRST STAGE) WITH 10 BBLS WATER, 30 BBLS REACTIVE SPACER, 10 BBLS WATER, 430 SKS CEMENT, DROP PLUG @ 08:30, DISPLACE W/120 BBLS PUMP LOST PRIME ON THE DISPL AND SWITCHED TO MUD IN THAT TIME THE CMT SET UP.STILL HAD 55 BBLS OF DISPL TO PUMP = 1399' OF CMT IN PIPE. DO HAVE 37 BBLS OF CMT ON THE OUTSIDE = 1380' DROPPED DV OPENING TOOL @ 09:05, LANDED 7" CSG ON HANGER @ 09:20
	9:30 - 12:30	3.00	DRLIN1	04	A	P		CIRC. THROUGH DV TOOL 700 CFM 108 GPM, 20 SPM 90 GPM TOTAL 197 GPM
	12:30 - 15:00	2.50	DRLIN1	15	A	P		SAFETY MEETING W/SUPERIOR CEMENTERS, CEMENT (SECOND STAGE) W/10 BBLS WATER, 30 BBLS REACTIVE SPACER, 10 BBLS WATER, 550 SK CEMENT, DROPPED PLUG @ 14:10, DISPLACED W/84 BBLS WATER, BUMPED PLUG @ 3500 PSI FLOAT HELD DV TOOL CLOSED, NO CEMENT TO SURFACE
	15:00 - 16:00	1.00	DRLIN1	15	A	P		WASH & FLUSH STACK & FLOWLINE, RIG DOWN CEMENTERS.
	16:00 - 18:00	2.00	DRLIN1	13	A	P		REMOVE CIRC. SWEDGE, L/D LANDING JT., RIG UP FMC, SET PACK OFF TOOL, TEST 7" CSG @ WELLHEAD T/3000 PSI FOR 15 MINS, L/D PACK OFF TOOL & TEST JT. L/D 4.5 DP OUT OF DERRICK.
	18:00 - 18:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	18:30 - 20:00	1.50	DRLIN1	07	A	X		REPAIR HYDRAULIC HOSE ON IRON ROUGHNECK
	20:00 - 0:00	4.00	DRLIN1	13	A	P		L/D DP, CHANGE OUT BAILS & ELEVATORS, CHANGE OUT 7" RAMS TO 2 7/8" RAMS, CHANGE OUT 5" RAMS TO 5 1/2" RAMS
9/14/2008	0:00 - 2:00	2.00	DRLIN1	13	C	P		CHANGING 7" RAMS TO 2 7/8" RAMS & 5" RAMS TO TO 5 1/2" RAMS
	2:00 - 8:00	6.00	DRLIN1	12	F	X		WAIT ON BOP HAND FOR RENTAL BOPS, SLIDE PLATE ON RAM CRACKED & BENT, UNABLE TO CHANGE RAMS.
	8:00 - 9:30	1.50	DRLIN1	13	D	X		PULLED CYLINDER FROM BOPE AND INSPECT AND FOUND CRACK AND IT WAS BENT. CAN NOT FIND ANOTHER CYLINDER.
	9:30 - 12:30	3.00	DRLIN1	12	F	X		WAIT ON WELDER TO COME AND REPAIR RAM CYLINDER.
	12:30 - 14:30	2.00	DRLIN1	13	D	X		WELD AND REPAIR RAM CYLINDER AND LET COOL.
	14:30 - 19:00	4.50	DRLIN1	13	C	P		PRESSURE TEST BOPs 2 7/8 RAM, 4 1/2, BLIND RAMS, BOP VALVES, CHOKE MANIFOLD TO 3000# HIGH, 250# LOW. ANNULAR TO 1900# HIGH, 250# LOW

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	19:00 - 22:00	3.00	DRLIN1	05	A	P		STRAPING BHA, RIG UP PICK UP MACHINE, ATTEMPT TO PICK UP BHA, WRONG ELEVATORS, COULDN'T LATCH ELEVATORS
	22:00 - 0:00	2.00	DRLIN1	12	E	X		WAIT ON ELEVATORS, FOR PICKING UP BHA THE ELEVATORS WAS 3 1/4 AND COLLARS ARE 3 1/8"
9/15/2008	0:00 - 2:30	2.50	DRLIN1	12	E	X		WAIT ON ELEVATORS FOR BHA
	2:30 - 8:30	6.00	DRLIN1	05	A	P		PICKING UP BHA & DP TAG CEMENT @ 2136 RIG DOWN LAYDOWN MACHINE
	8:30 - 9:00	0.50	DRLIN1	04	A	P		CIRC. & COND. HOLE
	9:00 - 11:00	2.00	DRLIN1	02	F	P		DRLG CEMENT & DV TOOL F/2136 T/2156
	11:00 - 12:00	1.00	DRLIN1	05	A	P		TIH F/2177 T/2406' TAG CEMENT STRINGER
	12:00 - 16:30	4.50	DRLIN1	03	E	P		WASH & REAM F/2406 T/2412 TIH 2412-2430 WASH AND REAM F/2430-2453
	16:30 - 18:00	1.50	DRLIN1	05	G	X		L/D STAND IN MOUSE HOLE TIGHTEN TOP CONN THAT WAS LEAKING. TRIPPED OUT 7 STDS AND CHECKED EVERY CONN AND RETIGHTEN CONNECTIONS AND TRIP BACK IN.
	18:00 - 19:30	1.50	DRLIN1	02	F	P		DRLG F/2453 T/ 2454 WOB 2-5K, RPM 60, MP #2 33 SPM, 148 GPM, 965 TO 1008, TORQUE ON/OFF 3/12K
	19:30 - 23:00	3.50	DRLIN1	05	H	X		POOH, LOST WEIGHT & PUMP PRESSURE, (HAD BACKED OFF 8 DC DOWN)
	23:00 - 0:00	1.00	DRLIN1	05	H	P		TIH TO TRY & SCREW INTO FISH @ 998
9/16/2008	0:00 - 2:00	2.00	DRLIN1	05	H	P		TIH TO SCREW INTO FISH @ 998
	2:00 - 9:00	7.00	DRLIN1	05	H	P		SCREWED INTO FISH TOH BREAK EVERY DC & CHECK THE TREADS DOPE & RE-TORQUE
	9:00 - 12:00	3.00	DRLIN1	05	G	P		L/D BAD COLLARS RE-RACK PIPE IN DERRICK
	12:00 - 12:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	12:30 - 16:00	3.50	DRLIN1	11	A	P		PREPARED 5 1/2 CSG
	16:00 - 18:00	2.00	DRLIN1	05	H	P		LOADING OUT ROLLER REAMERS, CLEANING UP LOCATION
	18:00 - 20:30	2.50	DRLIN1	12	E	P		WAITING ON 4 3/4 DC & 3 1/2 DP. MOVING 2 7/8 DP TO LOCATION
	20:30 - 0:00	3.50	DRLIN1	12	E	P		UNLOAD MUD MTRS, DC & DP STRAP & CALIPER
9/17/2008	0:00 - 0:30	0.50	DRLIN1	05	A	P		CHANGE OUT ELEVATORS, GET RENTAL EQUIPMENT ON FLOOR
	0:30 - 10:30	10.00	DRLIN1	05	A	P		PICK UP MUD MTR, 4 3/4 DC, 3 1/2 DP TO 2452
	10:30 - 13:00	2.50	DRLIN1	02	F	P		DRLG CEMENT F/2452 TO 2470, WOB 15/17, #2 SPM 55, GPM 248
	13:00 - 14:30	1.50	DRLIN1	05	A	P		PICK UP PIPE TO 3104
	14:30 - 17:30	3.00	DRLIN1	02	F	P		DRLG CEMENT F/3104 T/3476, WOB 15/17, #2 SPM 55,GPM 248
	17:30 - 18:00	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	18:00 - 0:00	6.00	DRLIN1	02	F			DRLG CEMENT F/3476 T/3923 WOB 15/17, #2 PUMP SPM 55, GPM 248.
9/18/2008	0:00 - 8:00	8.00	DRLIN1	02	F	P		DRLG F/3923 T/ , WOB 16, #2 PUMP SPM 55, GPM 248. SPP 1340, RPM TD 50, RPM MM 138 TOTAL RPM 188. ROP 80 TO105 ROP
	8:00 - 10:00	2.00	DRLIN1	11	C	P		ATTEMPT TO PRESSURE TEST CSG TO 1500 PSI. PRESSURED UP TO 500 PSI & BLED OFF WHEN KICKED OUT
	10:00 - 13:00	3.00	DRLIN1	05	K	P		TOH FOR TEST PLUG LOST ONE CONE ON BIT. IT HAS BEEN GONE FOR AWHILE.
	13:00 - 13:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	13:30 - 18:00	4.50	DRLIN1	05	K	P		TIH WITH TEST PLUG, TESTING EVERY 5 STDS, LAST TEST @ 2106 PRESSURE HELD.
	18:00 - 20:00	2.00	DRLIN1	05	I	P		TOH TEST PLUG WOULDN'T GO THROUGH DV TOOL.
	20:00 - 23:00	3.00	DRLIN1	08	B	P		RIG UP WIRELINE TRUCK & RUN BOND LOG W/PHOENIX SURVEYS
	23:00 - 0:00	1.00	DRLIN1	12	E	P		WAITING FOR STRING MILLS W/GRACO
9/19/2008	0:00 - 5:30	5.50	DRLIN1	05	I	P		TIH WITH 6 1/8 SRING MILL TO REAM TIGHT SPOTS @ DV TOOL @ 2154 & CSG, @ 2275,2458
	5:30 - 7:00	1.50	DRLIN1	05	K	P		TOH FOR TEST PLUG
	7:00 - 12:30	5.50	DRLIN1	05	A	P		MAKE UP CUP PACKER, TIH TO DV TOOL @ 2150, COULDN'T GET PAST 2183, TESTED THERE TO 1000 PSI
	12:30 - 14:00	1.50	DRLIN1	05	A	P		TOH FOR STRING MILL
	14:00 - 14:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	14:30 - 18:30	4.00	DRLIN1	07	A	Z		DRAWORKS #2 MODULE IN THE VFD IS DOWN
	18:30 - 20:30	2.00	DRLIN1	05	A	P		TOH TO LAY DOWWN CUP PACKER, PICK UP BIT & STRING MILL
	20:30 - 0:00	3.50	DRLIN1	07	A	P		REPLACE #2 MODULE IN THE VFD, DYNAMIC BRAKE ISN'T WORKING RIGHT IT WILL COAST UP AS WELL AS DOWN 4 TO 5 FT. WITH NO WEIGHT, TROUBLE SHOOTING SYSTEM.
9/20/2008	0:00 - 11:30	11.50	DRLIN1	07	A	Z		#2 MODULE IN THE VFD WAS REPLACED BUT THE DYNAMIC BRAKE ISN'T WORKING PROPERLY. TROUBLE SHOOTING SYSTEM, TOP DRIVE CONTINUES TO MOVE AFTER SHUT DOWN MAKING IT UNSAFE. WAIT ON OMRON TECH.
	11:30 - 17:00	5.50	DRLIN1	05	B	P		PICK UP HALCO RTTS TOOL, TIH TO 2440 TEST UP GOOD, 2480 TEST UP BAD, 2480 TEST DOWN GOOD, TEST @ 2445 GOOD, TEST @ 2449 BAD, HOLE IS BETWEEN 2445 & 2449.
	17:00 - 18:00	1.00	DRLIN1	05	K	P		TOH TO LAY DOWN HALCO RTTS TOOL
	18:00 - 19:30	1.50	DRLIN1	05	C	P		TIH TO 2388 OPEN ENDED TO SET CEMENT PLUG.
	19:30 - 21:00	1.50	DRLIN1	06	D	P		SLIP & CUT DRLG LINE RECALIBRATE BLOCKS
	21:00 - 0:00	3.00	DRLIN1	12	F	P		CIRC. HOLE OUT WHILE WAITING FOR CEMENTERS
9/21/2008	0:00 - 5:30	5.50	DRLIN1	12	F	P		WAIT ON CEMENTERS TO SET CEMENT PLUG
	5:30 - 7:30	2.00	DRLIN1	15	B	P		HELD SAFETY MTG. RIG UP CEMENTERS TO SET 100 SK CEMENT PLUG
	7:30 - 8:00	0.50	DRLIN1	15	B	P		PUMPED 100 SKS OF CLASS G 15.8# 21 BBLS DISPLACE 17.7 BBLS OF WATER
	8:00 - 13:00	5.00	DRLIN1	12	B	P		PULLED 2 STDS. TO 2156 CIRC HOLE CLEAN. AFTER 3 HRS. RAN BACK TO 2388 TAGGED SOFT CMT. PICKED UP CIRC PIPE CLEAN AND WAITED UNTIL 13:00 AND TAGGED GOOD CMT AT 2403' SET 20K ON IT AND HELD.
	13:00 - 14:00	1.00	DRLIN1	05	C	P		TRIP OUT OF HOLE.
	14:00 - 14:30	0.50	DRLIN1	15	B	P		RIG DOWN CMT EQUIPMENT.
	14:30 - 15:00	0.50	DRLIN1	06	A	P		RIG SERVICE
	15:00 - 16:30	1.50	DRLIN1	05		P		PICK UP MUD MOTOR AND BIT AND TRIP IN TO 2388'
	16:30 - 20:00	3.50	DRLIN1	12	B	P		WAIT ON CMT.

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	20:00 - 21:00	1.00	DRLIN1	02	F	P		TAG CEMENT STRINGER @ 2407 & 2459, DRILLED STRINGES OUT, CIRC. OUT CEMENT, ATTEMPT TO PRESSURE TEST. PRESSURED UP TO 975 PSI AT A GRADUAL INCREASE BUT PLUG BROKE DOWN. PRESSURE THEN DECREASED RAPIDLY.
	21:00 - 23:00	2.00	DRLIN1	05	A	P		TOH WITH BIT & COLLARS & STAND BACK
	23:00 - 0:00	1.00	DRLIN1	05	A	P		TIH OPEN ENDED WITH CEMENT STRING.25 STDS DP TO 2388
9/22/2008	0:00 - 16:00	16.00	DRLIN1	12	E	P		WAITING ON CEMENT EQUIPMENT, UNABLE TO LOCATE CEMENT PUMP TRUCK, ALL CEMENTING COMPANYS ARE BUSY
	16:00 - 17:00	1.00	DRLIN1	15	B	P		RIG UP CEMENTERS, HELD SAFETY MEETING
	17:00 - 17:30	0.50	DRLIN1	08	B	P		CHECK INJECTION RATE, CSG PRESSURED UP TO 800 PSI HELD FOR 20 MIN LOST 8 PSI
	17:30 - 18:30	1.00	DRLIN1	05	A	P		TOH TO PICK UP BIT & BHA
	18:30 - 22:00	3.50	DRLIN1	05	A	P		TRIP IN HOLE WITH BIT & BHA
	22:00 - 0:00	2.00	DRLIN1	02	F	P		DRILL CEMENT,FLOAT, CEMENT. WOB 15K, RPM 60, SPM 50, SPP 755, GPM 225
9/23/2008	0:00 - 6:00	6.00	DRLIN1	02	F	P		DRLG CEMENT & SHOE
	6:00 - 7:00	1.00	DRLIN1	11	A	P		RIG UP LAY DOWN MACHINE
	7:00 - 12:00	5.00	DRLIN1	05	D	P		L/D 3 1/2 DRILL PIPE AND BHA.
	12:00 - 14:30	2.50	DRLIN1	11	A	X		HELD SAFETY MTG WITH CASING CREWS AND RIG UP. (DID NOT BRING BACK UP TONGS AND COLLAR CLAMP SAID THEY HAD THEM AND IT WAS NOT ON TRUCK) RIG DOWN AND RELEASED CSG. EQUIPMENT. BERNARD CASING SERVICE.
	14:30 - 17:00	2.50	DRLIN1	12	E	X		WAITING ON CASING CREWS AND EQUIPMENT.
	17:00 - 17:30	0.50	DRLIN1	06	A	P		RIG SERVICE.
	17:30 - 18:00	0.50	DRLIN1	12	E	P		WAITING ON CASING CREWS AND EQUIPMENT.
	18:00 - 19:30	1.50	DRLIN1	11	A	P		HELD SAFETY MTG. AND RIG UP CASING EQUIPMENT.
	19:30 - 0:00	4.50	DRLIN1	11	B	P		RUN 5 1/2", 17# J-55 ULTRA-FLUSH JOINTS LEFT HAND THREAD. STARTED TO GET HOLE DRAG AT 2426' AND IT WAS THAT WAY FOR 5 JTS. DRAGGED ABOUT 20-25K DOWN.
9/24/2008	0:00 - 1:30	1.50	DRLIN1	11	B	P		RUN 104 JTS. 5.5 17# J 55 ULTRA FLUSH CSG.TO 4481
	1:30 - 2:00	0.50	DRLIN1	11	A	P		RIG DOWN CASERS
	2:00 - 5:30	3.50	DRLPRO	18	A	P		PICK UP STACK, SET SLIPS W/70K, CUT OFF CSG
	5:30 - 11:00	5.50	DRLPRO	13	A	P		NIPPLE UP STACK
	11:00 - 11:30	0.50	DRLPRO	13	C	P		Pickup and make up testing tools
	11:30 - 12:30	1.00	DRLPRO	13	C	P		Pressure test BOPE to 250 low 5 minutes, 3000 high 10 minutes. Wittnessed by Walton Wilis w/ BLM
	12:30 - 13:00	0.50	DRLPRO	06	A	P		Rig Service
	13:00 - 16:30	3.50	DRLPRO	05	A	P		Make up directional tools
	16:30 - 17:00	0.50	DRLPRO	05	A	P		Rig up Weatherfords pickup machine
	17:00 - 20:30	3.50	DRLPRO	05	A	P		Pickup 2 7/8" drill pipe. Using Weatherford hydraulic tongs for make, torque 4600
	20:30 - 21:00	0.50	DRLPRO	05	A	P		Rig down Weatherfords pickup machine
	21:00 - 23:00	2.00	DRLPRO	05	A	P		TIH and strap drill string in derrick

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	23:00 - 23:30	0.50	DRLPRO	05	A	S		Check drill pipe count, making sure drill string is correct
	23:30 - 0:00	0.50	DRLPRO	05	A	P		Install rotating head
9/25/2008	0:00 - 2:00	2.00	DRLPRO	04	A	P		Attempt to displace casing w/ air
	2:00 - 6:00	4.00	DRLPRO	02	D	P		DRILL FROM 4503' TO 4532' - Actual depth was 4472' - 4501'
	6:00 - 11:00	5.00	DRLPRO	05	A	P		TRIP OUT OF HOLE
	11:00 - 12:00	1.00	DRLPRO	12	A	P		WAITING ON ORDERS
	12:00 - 13:00	1.00	DRLPRO	05	A	P		LAYING DOWN DIRECTIONAL TOOLS
	13:00 - 13:30	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	13:30 - 15:30	2.00	DRLPRO	12	E	P		WAITING ON NEW BIT
	15:30 - 17:30	2.00	DRLPRO	05	A	P		MAKE UP BIT & TRIP IN HOLE TO 2000'
	17:30 - 18:00	0.50	DRLPRO	04	H	P		UNLOADED HOLE WITH 800 CFM AT 2000'
	18:00 - 21:00	3.00	DRLPRO	05	A	P		TRIPPING IN HOLE TO 4998'
	21:00 - 0:00	3.00	DRLPRO	04	H	P		UNLOADING HOLE W/ 1000 SCFM AIR
9/26/2008	0:00 - 0:30	0.50	DRLPRO	04	H	P		Unload hole w/ air down drill pipe and blow dry. Establish air injection down parasite string
	0:30 - 3:30	3.00	DRLPRO	02	D	P		Work past junk at 4498' several time and drill 4503' - 4517'. Pickup above 4498' and could not make it back to bottom
	3:30 - 9:00	5.50	DRLPRO	05	A	X		TOOH to check bit and pickup mill and junk sub
	9:00 - 9:30	0.50	DRLPRO	06	A	P		Rig Service
	9:30 - 11:00	1.50	DRLPRO	05	A	X		HSM about picking up fishing tools and pickup milling BHA
	11:00 - 15:30	4.50	DRLPRO	05	A	X		TIH w/ milling BHA. Unload hole at 3000'. TIH, tagged at 4495'
	15:30 - 16:00	0.50	DRLPRO	04	H	X		Unload hole w/ mill at 4493' and air going down drill pipe
	16:00 - 16:30	0.50	DRLPRO	04	H	X		Establish circulation w/ air going down parasite string and fluid going down drill pipe
	16:30 - 0:00	7.50	DRLPRO	16	A	X		Mill on junk 4490' - 4503'
9/27/2008	0:00 - 3:00	3.00	DRLPRO	05	A	X		TOOH slow, change elevators as needed. Visualy inspect connection, found 2 connection w/ 1/2" gap, tighten. Had trouble breaking tool joints due to over torque. From 4481' to 3500' had 6k drag
	3:00 - 3:30	0.50	DRLPRO	05	A	X		Pull rotating head
	3:30 - 4:00	0.50	DRLPRO	05	A	X		TOOH
	4:00 - 6:00	2.00	DRLPRO	05	A	X		Break mill and junk basket and empty. Found flat steal shavings , m/u new mill & basket & T.I.H.
	6:00 - 12:00	6.00	DRLPRO	05	A	X		TIH, installed rotating head, unloaded hole 3040' & 4480' W/ 1000 SCFM air
	12:00 - 13:00	1.00	DRLPRO	04	H	X		Establish circulation w/ air going down parasite string and fluid going down drill pipe
	13:00 - 15:30	2.50	DRLPRO	16	A	X		Mill on junk, tag @ 4495' work down to 4516'
	15:30 - 18:00	2.50	DRLPRO	16	B	X		Work Stuck Pipe
	18:00 - 0:00	6.00	DRLPRO	16	B	X		Work Stuck Pipe @ 4516' trying various things to free up pipe
9/28/2008	0:00 - 5:00	5.00	DRLPRO	12	F	X		Wait on backoff wireline unit and fishing tools
	5:00 - 9:30	4.50	DRLPRO	16	B	X		HSM w/ DCT Wireline crew and rig up to free point and back off. Had to change rope scokett for 1" tools.
	9:30 - 11:00	1.50	DRLPRO	16	B	X		RIH w/ 1" free point tools, had to pump 5 - 25 SPM to help get tools to bottom
	11:00 - 12:00	1.00	DRLPRO	16	B	X		Laid down free point tools and pickup back off tools

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	12:00 - 14:00	2.00	DRLPRO	16	B	X		Pull backoff tools and rig down DCT Wireline. Install mouse hole and prep to TOOH
	14:00 - 14:30	0.50	DRLPRO	16	B	X		RIH w/ back off tools and back off at 4442'. Fish left in hole: Mill, junk basket, bit sub, xo sub, xo sub, 2 joints DP. Total length 74.45'. Top of fish at 4442'
	14:30 - 15:00	0.50	DRLPRO	12	E	X		Wait on Weatherford to get engine for power tongs running
	15:00 - 17:30	2.50	DRLPRO	16	A	X		TOOH to pickup fishing tools
	17:30 - 18:00	0.50	DRLPRO	06	A	P		LUBRICATE RIG
	18:00 - 18:30	0.50	DRLPRO	06	A	P		INSPECTED DERRICK
	18:30 - 19:00	0.50	DRLPRO	05	A	X		P/U & M/U OVERSHOT, BUMPER SUB, JAR AND T.I.H. TO TOP OF FISH 4442'
	19:00 - 20:30	1.50	DRLPRO	05	A	X		T.I.H.
	20:30 - 21:00	0.50	DRLPRO	05	A	X		INSTALL R/T HEAD
	21:00 - 0:00	3.00	DRLPRO	05	A	X		T.I.H. CK. TQ.
9/29/2008	0:00 - 0:30	0.50	DRLPRO	05	A	X		TIH w/ overshot
	0:30 - 8:00	7.50	DRLPRO	16	A	X		Work overshot over fish and jar on fish start setting jars off at 140k and increasing to 155k
	8:00 - 12:00	4.00	DRLPRO	05	A	X		TOOH w/ fish, drag 4442' - 2966'
	12:00 - 14:00	2.00	DRLPRO	16	A	X		Recovered fish. Lay down fish
	14:00 - 15:30	1.50	DRLPRO	16	A	X		Pickup reverse circulating junk basket. Check float and cleaned out, it was full of metal cuttings, recovered 2 pounds of metal
	15:30 - 16:00	0.50	DRLPRO	06	A	P		Rig Service
	16:00 - 16:30	0.50	DRLPRO	06	A	X		Inspect derrck and top drive after jarring. Found bent hydraulic fitting to IBOP, changed out
	16:30 - 20:00	3.50	DRLPRO	05	A	X		TIH w/ reverse circulating junk basket. Change elevator as needed to straighten drill pipe and drill collar up
	20:00 - 20:30	0.50	DRLPRO	05	A	X		Install rotating head
	20:30 - 22:00	1.50	DRLPRO	16	A	X		Make up top drive and break circulation w/ 20 spm at 4497'. Setting down on some junk, tried to work past junk, not successful
	22:00 - 23:30	1.50	DRLPRO	05	A	X		TOOH 50 DC. change elevators over to drill pipe
	23:30 - 0:00	0.50	DRLPRO	05	A	X		Pull rotating head
9/30/2008	0:00 - 0:30	0.50	DRLPRO	05	A	X		Pull rotating head
	0:30 - 1:30	1.00	DRLPRO	05	A	X		TOOH, lay down reverse circulation junk basket. Make up mill, watermelon mill and junk basket. Clean floor
	1:30 - 2:00	0.50	DRLPRO	12	E	X		Work on Weatherford's hydraulic power tongs, had to change out
	2:00 - 3:30	1.50	DRLPRO	05	A	X		TIH, SLM
	3:30 - 4:00	0.50	DRLPRO	05	A	X		Install rotating head
	4:00 - 5:30	1.50	DRLPRO	05	A	X		Change elevators to DC's and continue to TIH, SLM
	5:30 - 6:00	0.50	DRLPRO	04	A	X		Establish circulation
	6:00 - 13:00	7.00	DRLPRO	16	A	X		Mill 4495'-4497' WOB 2-8K, RPM 65-75, SPM 36-42, GPM 116-135, Torq 1-3K. Hard milling 4508' - 4510'
	13:00 - 14:00	1.00	DRLPRO	12	E	X		Work on Weatherford's hydraulic power tongs
	14:00 - 19:30	5.50	DRLPRO	05	A	X		TOOH, break mill & junk basket and inspect. Visually inspect connection, found 1 connection that had about 1/2" gap.
	19:30 - 0:00	4.50	DRLPRO	05	A	X		Make up new mill, trip in hole, retorque every connection, connections were at recommended torque.

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
10/1/2008	0:00 - 0:30	0.50	DRLPRO	05	A	X		Finish TIH, checking every connection's torque
	0:30 - 9:00	8.50	DRLPRO	16	A	X		Mill on junk 4510' - 4515' WOB 3-11, RPM 75-85, Pump #1 42-48 SPM, 135-155 GPM, Pressure 1530-2025, Torq 1-3K. Worked hole 2 time from 4495' - 4515' and one time to 4513'. Pulled back to 4490 and worked down to 4500' could not get deeper.
	9:00 - 13:00	4.00	DRLPRO	05	A	X		TOOH, L/D Kelly XO sub. Visually check breaks. Break off mill and junk basket
	13:00 - 13:30	0.50	DRLPRO	06	A	P		Rig Service
	13:30 - 15:00	1.50	DRLPRO	07	A	S		Power down PLC's. Power down rig to change breaker in VFD house
	15:00 - 17:00	2.00	DRLPRO	05	A	X		Finish laying down milling tools and rig down Weatherford power tongs
	17:00 - 20:00	3.00	DRLPRO	13	A	X		Prep to lay down 5 1/2" casing. Break BOP at wellhead. Rig down flow line - Pick up BOP
	20:00 - 22:00	2.00	DRLPRO	16	A	X		Make up spear & grappler - Spear into 5 1/2 casing - Pull up and remove casing slips - 115k to pull pipe - Pull up to 1st casing connection - set slips & collar clamp
	22:00 - 0:00	2.00	DRLPRO	13	A	X		Nipple up BOP & rig up flow line
10/2/2008	0:00 - 1:00	1.00	DRLPRO	13	A	X		Nipple up BOP & flow line
	1:00 - 4:00	3.00	DRLPRO	11	A	X		HSM and rig up Frank's Westates casing crew's power tongs, elevators, backup tongs, spot HPU and rig up hydraulic lines. Back out 1 joint of casing and set in mouse hole. Laid down joint of casing and fishing tools
	4:00 - 4:30	0.50	DRLPRO	05		X		Re-arrange 18 stands of 2 7/8" drill pipe in derrick to furnish adequate spacing for lay down machine trough
	4:30 - 6:00	1.50	DRLPRO	11	A	X		HSM w/ Frank's Westates crew and rig up casing crew and lay down machine, change bail and elevators
	6:00 - 7:30	1.50	DRLPRO	11	B	X		HSM w/ Frank's Westates casing crew and lay down 10 joints 5 1/2" casing
	7:30 - 12:00	4.50	DRLPRO	13	C	X		HSM w/ Single Jack, pickup test tools and 1 joint 4 1/2" DP. Make up test tools and run in hole, attempt to test and could not get good seal. Open BOP door and found a piece of metal 3 1/4" Wide x 10" Long. Attempt to test again and did not get good seal, pull test plug out and checked XO sub OD, it was the OD was larger than the 7" casing ID. Lay down test plug. Contacted Walt Wills w/ BLM and received verbal approvel on laying down 5 1/2" casing w/o pressure testing BOP
	12:00 - 18:30	6.50	DRLPRO	11	B	X		Lay down 5 1/2" casing, 30k drag until we were above 2400', no drag above 2400'. Rig down casing crew and change out elevator and bails. ESTIMATED 8.08 OF CASING
	18:30 - 20:30	2.00	DRLPRO	13	C	X		HSM w/ Single Jack, rig up tester, fill stack and test 2 7/8" ram door seal, 4 1/2" rams, seal between rams and "B" section of wellhead, inside kill, inside choke manifold valve and upper kelly valve to 250 psi for 5 minutes and 3000 psi for 1 minutes, all held. Rig down Single Jack Testers
	20:30 - 21:30	1.00	DRLPRO	16	A	X		Rig up Slaugh fishing milling and fishing tools. Pick up mill, & jars. Strap 3 1/2 drill pipe & pick up 3 1/2 slips & elevators

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	21:30 - 0:00	2.50	DRLPRO	05	A	X		HSM w/ Frank's Lay down crew. Pick up 3 1/2 drill pipe. Picked up 68 jts, 2154' in hole, tagged up around the DV tool. Started reaming through DV tool at 2154' at midnight
10/3/2008	0:00 - 5:00	5.00	DRLPRO	16	A	X		Pickup back up tongs, make up XO sub on top drive. Wash, ream and or mill 2159' - 2591'
	5:00 - 9:00	4.00	DRLPRO	16	A	X		TIH from 2591' - 4259'
	9:00 - 9:30	0.50	DRLPRO	16	A	X		Rig down pickup machine
	9:30 - 11:30	2.00	DRLPRO	16	A	X		Ream 4259' - 4502', pushing something down ahead of mill
	11:30 - 13:00	1.50	DRLPRO	16	A	X		Mill on junk 4502' - 4504'. Stalled out picked up dragging, pulled up to casing and stuck mill in 7" casing shoe
	13:00 - 16:30	3.50	DRLPRO	16	A	X		Stuck at casing shoe. Jarring on mill trying to free up
	16:30 - 0:00	7.50	DRLPRO	16	A	X		Milling on 5 1/2" casing that was left in hole when 5 1/2 casing was pulled, working mill between 4489' - 4504'. Approximately 8.08' long
10/4/2008	0:00 - 2:00	2.00	DRLPRO	16	A	X		Milling on 5 1/2" casing junk 4489' - 4503'. Returns were heavy w/ metal filing. Worked mill in to casing
	2:00 - 7:30	5.50	DRLPRO	16	A	X		TOOH, in the process of milling on junk we backed off the skirt off junk sub and had two chunks of 5 1/2" casing wedged between skirt and junk sub body. Junk sub was damaged so no extra iron was recovered. NOTE: LAID DOWN 2 JOINTS DRILL PIPE ONE HAD BIG RING GROOVES AROUND THE TUBE, THE OTHER ONE HAD SMALL RIG GROOVES AROUND TUBE. DEPTH IN HOLE WAS 4228' - 4291'
	7:30 - 9:00	1.50	DRLPRO	16	A	X		Laid down fishing jars, strap, caliper and pickup drilling jars
	9:00 - 9:30	0.50	DRLPRO	06	A	X		Rig service and inspect coupler between drawworks and traction motor
	9:30 - 15:00	5.50	DRLPRO	16	A	X		TIH w/ mill, bit sub, 1 joint drill pipe, drilling jars, tagged at 2495', 4275' and 4503'. Ream 4275' - 4503'
	15:00 - 0:00	9.00	DRLPRO	16	A	X		Milling on junk 4503' - WOB 1-5k, RPM 110, SPM 85, GPM 258, Max torque set at 7. Torque while milling = 3000-6000ft/lbs. @ 2330 hrs running 10k on mill & torque falling off to 2500-2800ft/lbs.
10/5/2008	0:00 - 4:30	4.50	DRLPRO	16	A	X		Trip out w/ mill. Tight coming up through casing from 4300' to 3900'. Pulling 30-40k over normal drag wt. Mill was cut approx. 2" up beyond cut right into mill body to approx 5 1/4" od. Original mill od was 6 1/8"
	4:30 - 5:00	0.50	DRLPRO	16	A	X		Break out mill. Pick up new mill, junk basket, & bit sub
	5:00 - 8:30	3.50	DRLPRO	16	A	X		Trip in hole w/ mill. Tagged something @ 2475' & 4512'
	8:30 - 11:30	3.00	DRLPRO	16	A	X		Mill from 4512' to 4516'
	11:30 - 14:00	2.50	DRLPRO	16	A	X		Trip out mll. Tight from 4261' to 3900'. Pulled 60k over @ 4261' and 30-40k over normal drag wt. Had a little bobble coming through 2475'
	14:00 - 15:00	1.00	DRLPRO	16	A	X		Trip in hole w/ new mill. Tagged something @ 2245'
	15:00 - 17:00	2.00	DRLPRO	16	A	X		Ream down from 2245' to 2532'. Not making any more hole @ 2532'
	17:00 - 18:30	1.50	DRLPRO	16	A	X		Trip out to check mill. Break off mill. Mill wore on center & heel. Approx. 2 1/2" wear pattern dead center of mill. Visible 3/4" wear pattern in center of 2 1/2" wear pattern

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:30 - 19:00	0.50	DRLPRO	06	A	P		Lubricate rig
	19:00 - 20:30	1.50	DRLPRO	06	D	P		Slip & cut 74' drilling line
	20:30 - 21:30	1.00	DRLPRO	16	A	X		Clear off all used mills from floor. Make up new mill. Trip in hole 5 stds
	21:30 - 22:00	0.50	DRLPRO	07	A	Z		Repair rig. Encoder mismatch on rig. Troubleshoot rig. Reset PLC cards & caliberate drawworks
	22:00 - 23:00	1.00	DRLPRO	16	A	X		Trip in hole to 2532'. Tag something @ 2532'.
	23:00 - 23:30	0.50	DRLPRO	16	A	X		Lay out 1 jt drill pipe. Install crossover sub. Change out 3 1/2 rental elevators.
	23:30 - 0:00	0.50	DRLPRO	16	A	X		Tag junk & begin reaming @ 2532'. 1-3k on bit. Pumping 315 gpm @ 750 psi. 1000-3000ft/lbs torque on top drive.
10/6/2008	0:00 - 0:30	0.50	DRLPRO	16	A	X		Tagged at 2533' - 2535', mill through tight spot w/ WOB 2, RPM 100, Pump #2 70 SPM, GPM 315, Torque 1, SPP 748
	0:30 - 2:30	2.00	DRLPRO	16	A	X		TIH
	2:30 - 7:00	4.50	DRLPRO	16	A	X		Mill 4491' - 4518', WOB 2, RPM 100, Pump #2 70 SPM, GPM 315, Torque 2-5k, PSI 1442
	7:00 - 11:00	4.00	DRLPRO	05	A	X		TOOH, laid down 2 joints, tight 4490' - 3900' drag 40k, 3900' - 2480' drag 20k. Break out mill and junk basket. Recovered 1 chunk iron 1/2" to 3/4" wide by 1 1/2" long, it was stuck in mill
	11:00 - 11:30	0.50	DRLPRO	06	A	P		Rig Service
	11:30 - 14:00	2.50	DRLPRO	05	A	X		Make up mill #6, junk basket, 1 - jt drill pipe, drilling jars, xo sub, junk basket, xo sub and TIH w/ remainder of drill string
	14:00 - 16:00	2.00	DRLPRO	05	A	X		Work through tight spots at 2160', 2316', 2410', 2471'. Wash and ream 2160' - 2480'
	16:00 - 17:30	1.50	DRLPRO	05	A	X		TIH
	17:30 - 18:00	0.50	DRLPRO	03	E	X		Wash and ream 4301' - 4310'
	18:00 - 19:00	1.00	DRLPRO	05	A	X		Finsh tripping in hole. Tripping slow taking 15-30k going in hole from 4310' to 4506'
	19:00 - 22:00	3.00	DRLPRO	16	A	X		Mill from 4506' to 4519.6'. Start out milling w/ 1/4k on mill. Pumping 315 gpm. 100 rpm on top drive. 2000-4000 ft/lbs torque. At 2100 hrs. running 15k on mill w/ 3500-4000 ft/lbs of torque - not making any progress. Pump high vis sweep around.
	22:00 - 0:00	2.00	DRLPRO	05	A	X		Trip out w/ mill. 30-40k overpull from 4300' to 4000'. 10-20k overpull from 4000' to 3300'.
10/7/2008	0:00 - 1:30	1.50	DRLPRO	05	A	X		TOOH w/ mill #6
	1:30 - 2:30	1.00	DRLPRO	05	A	X		Break out & clean junk baskets. Laid down mill and pickup magnet run #1
	2:30 - 5:00	2.50	DRLPRO	05	A	X		TIH w/ magnet run #1, tagged at 4518'
	5:00 - 5:30	0.50	DRLPRO	16	A	X		Work magnet 4490' - 4519'
	5:30 - 9:00	3.50	DRLPRO	05	A	X		TOOH w/ magnet run #1. Break off magnet and junk basket and clean same. Recovered fair amount of junk
	9:00 - 12:00	3.00	DRLPRO	05	A	X		Make up magnet and junk baskets and TIH w/ magnet run #2, tagged bridges at 2472' & 3428'
	12:00 - 13:00	1.00	DRLPRO	16	A	X		Work magnet and junk subs 4490' - 4519'
	13:00 - 15:30	2.50	DRLPRO	05	A	X		TOOH w/ magnet run #2. Break off magnet & junk baskets and clean. No tight spots on trip out
	15:30 - 16:00	0.50	DRLPRO	06	A	P		Rig Service
	16:00 - 18:30	2.50	DRLPRO	07	A	P		Dock top drive and power down PLC's, swap electrical wires on generators, power up PLC's, un-dock top drive. Align traction motors on draw works

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:30 - 19:00	0.50	DRLPRO	05	A	X		Pickup magnet and junk subs
	19:00 - 21:00	2.00	DRLPRO	05	A	X		TIH w/ magnet run #3
	21:00 - 22:30	1.50	DRLPRO	16	A	X		Work magnet and junk baskets from 4519' - 4434'
	22:30 - 0:00	1.50	DRLPRO	05	A	X		TOOH w/ magnet run #3
10/8/2008	0:00 - 1:00	1.00	DRLIN1	16	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	1:00 - 4:30	3.50	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, RUN # 5
	4:30 - 5:30	1.00	DRLIN1	16	A	P		WORK MAGNET & JUNK BASKETS F/4343 T/4519, RPM 50, SPM 75, PSI 2140, GPM 336
	5:30 - 9:00	3.50	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	9:00 - 12:00	3.00	DRLIN1	05	A	P		MAKE UP MAGNET, 1 JT DP, DBL PIN, JUNK BASKET, BIT SUB, JARS, DBL. PIN, 2 JUNK BASKETS, BIT SUB, TIH, (BRIDGE @ 3497)
	12:00 - 13:00	1.00	DRLIN1	04	A	P		WORK MAGNET & JUNK BASKETS F/4343 T/4519, RPM 50, SPM 75, PSI 2140, GPM 33
	13:00 - 15:30	2.50	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	15:30 - 18:00	2.50	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, RUN #6
	18:00 - 19:00	1.00	DRLIN1	16	A	P		WORK MAGNET & JUNK BASKETS F/4343 T/4519, RPM 50, SPM 75, PSI 2140, GPM 338
	19:00 - 21:00	2.00	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS, BREAK OFF & CLEAN
	21:00 - 22:00	1.00	DRLIN1	05	A	P		REPLACE SHOE ON MAGNET, MAKE UP JUNK BASKETS
	22:00 - 0:00	2.00	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, RUN #7
10/9/2008	0:00 - 1:00	1.00	DRLIN1	16	A	P		WORKING MAGNET & JUNK SUBS, F/4460 T/4519, RPM 50, SPM 75, PSI 2140, GPM 338
	1:00 - 2:30	1.50	DRLIN1	05	A	P		TOH W/MAGNET & JUNK BASKETS
	2:30 - 4:00	1.50	DRLIN1	05	A	P		LAY DOWN JUNK BASKETS & CLEAN, PICK BACK UP JUNK BASKETS & MAGNET. RETRIEVED 8# OF IRON ON RUN #7
	4:00 - 6:00	2.00	DRLIN1	05	A	P		TIH W/MAGNET & JUNK BASKETS, STRING TOOK WT. @ 2534. RUN #8
	6:00 - 7:00	1.00	DRLIN1	16	A	P		WORKING MAGNET & JUNK SUBS, F/4460 T/4519, RPM 50, SPM 75, PSI 2140, GPM 338
	7:00 - 10:00	3.00	DRLIN1	05	A	P		LAY DOWN JUNK BASKETS & CLEAN, PICK BACK UP JUNK BASKETS & MAGNET. RETRIEVED 3# OF IRON ON RUN #8
	10:00 - 11:00	1.00	DRLIN1	05	A	P		L/D FISHING TOOLS
	11:00 - 11:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	11:30 - 19:30	8.00	DRLIN1	05	A	P		MAKE UP NEW BHA W/ TO DRILL RATHOLE & TIH
	19:30 - 21:30	2.00	DRLIN1	09	D	P		RAN GAMMA SURVEY F/4380 T/4519
	21:30 - 22:00	0.50	DRLIN1	16	A	P		WORKING JUNK BASKETS ON BOTTOM BEFORE DRILLING
	22:00 - 0:00	2.00	DRLIN1	02	C	P		DRLG F/4519 T/4528, WOB 16K, RPM 60, SPP 1765, GPM 338
10/10/2008	0:00 - 10:00	10.00	DRLPRO	02	C	P		DRLG F/4528 T/ WOB 16K, RPM 60, SPM 75, SPP 1765, GPM 338
	10:00 - 11:00	1.00	DRLPRO	04	A	P		CIRC. & CONDD. HOLE @ 4565 WORKING JUNK BASKETS
	11:00 - 13:30	2.50	DRLPRO	05	D	P		TOH TO RUN PARASITE STRING
	13:30 - 16:00	2.50	DRLPRO	05	A	P		LAY DOWN DIR. TOOLS & REST OF BHA
	16:00 - 18:00	2.00	DRLPRO	11	A	P		HSM WITH CASERS L/D MACHINE, & RIG UP TO RUN PARASITE STRING

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO	11	A	P		HSM WITH CASERS & L/D MACHINE, RUN 5 1/2 17# CSG. PARASITE STRING
10/11/2008	0:00 - 3:00	3.00	DRLIN1	11	B	P		RUNNING 5 1/2 17# PARASITE STRING 100 JTS LANDED @ 4279 PACKED OFF, TESTED
	3:00 - 4:00	1.00	DRLIN1	11	A	P		RIG DOWN L/D MACHINE & CSG EQUIPMENT
	4:00 - 6:00	2.00	DRLIN1	06	D	P		SLIP & CUT DRILLING LINE, CALIBRATE TOP DRIVE, CHANGE ELEVATOR BAILS & ELEVATORS, CHANGE OIL IN TOP DRIVE
	6:00 - 6:30	0.50	DRLIN1	06	A	P		RIG SERVICE
	6:30 - 14:30	8.00	DRLIN1	05	A	P		PICK UP DIRECTIONAL TOOLS AND AJUST MOTOR TO 1.37 DEG. TRIP IN HOLE SLOW DUE TO WIND.
	14:30 - 15:00	0.50	DRLIN1	04	G	P		DISPLACE HOLE WITH AIR DOWN DP WITH 1500 CFM AT 2404'
	15:00 - 17:30	2.50	DRLIN1	05	A	P		TRIP IN HOLE SLOW. PUT 30 STDS BELOW DC AND RAN 16 STDS DC ON TOP.
	17:30 - 18:30	1.00	DRLIN1	04		P		DISPLACE HOLE WITH AIR DOWN DP WITH 1500 CFM AT 4504', 230 GPM
	18:30 - 20:00	1.50	DRLIN1	03	E	P		WASH TO BTM. @ 4565, SPM 37, GPM 118, CFM 500, GPM 76, RPM 10, MTR RPM 156
	20:00 - 20:30	0.50	DRLIN1	07	A	X		CHANGE OUT GASKET ON PASON FLOW SENSOR
	20:30 - 21:30	1.00	DRLIN1	02	C	P		DRLG ROTATE F/4565 T/4567, WOB 4K, CFM 500 GPM 76, SPM 37, GPM 118, MTR RPM 156, SLIDE F/4567 T/4571 ON CONN. SHUT OFF AIR ON PARASITE STRING
	21:30 - 0:00	2.50	DRLIN1	02	C	P		DRLG ROTATE F/4571T/4596, WOB 4K, CFM 500 GPM 76, SPM 37, GPM 118, MTR RPM 156, SLIDE F/4596 T/4600 ON CONN. SHUT OFF AIR ON PARASITE STRING
10/12/2008	0:00 - 1:00	1.00	DRLIN1	02	C	P		DRLG F/4600 T/4603, WOB 6K, CFM 500 GPM 76, SPM 37 GPM 118, RPM 15 MUD MTR RPM 156, SHUT AIR OFF ON CONN.
	1:00 - 6:00	5.00	DRLIN1	05	A	P		TRIP FOR BIT. INSPECT BIT AND MOTOR.
	6:00 - 7:00	1.00	DRLIN1	06	A	P		CLEAN UP TRIPPING HAZARDS ON FLOOR & RIG SERVICE
	7:00 - 11:30	4.50	DRLIN1	05	A	P		CHANGE OUT BIT, MUD MTR. & UBHO SUB TEST M/M, (UBHO SUB WAS LEAKING @ SET SCREW), SCRIBE M/M
	11:30 - 14:00	2.50	DRLIN1	05	A	P		TIH TO 2411, DISPLACE HOLE WITH AIR W/1500 CFM
	14:00 - 15:00	1.00	DRLIN1	05	A	P		TIH TO 4512
	15:00 - 16:00	1.00	DRLIN1	04	A	P		DISPLACE HOLE W/AIR @ 4512. ESTABLISH CIRC., W/120 GPM DOWN PIPE, 500 CFM 76 GPM ON PARASITE STRING
	16:00 - 16:30	0.50	DRLIN1	03	E	P		WASH F/4512 T/4603 CLEANING UP BOTTOM
	16:30 - 19:00	2.50	DRLIN1	02	C	P		DRLG ROTATE F/4603 T/4605, WOB 2/11, RPM 20/30, RPM M/M 156, CFM 500, GPM 76, SPM 37, GPM 118, SPP ON/OFF 1550/1400, TORQUE ON/OFF 1/1K. SLIDE F/4605T/4613
	19:00 - 20:00	1.00	DRLIN1	12	E	P		LOST GAMMA SIGNAL WITH WEATHERFORD, CHECKED OUT SYSTEM, REGAINED SIGNAL
	20:00 - 0:00	4.00	DRLIN1	02	C	P		DRLG ROTATE F/4603 T/4700, WOB 2/11, RPM 20/30, RPM M/M 156, CFM 500, GPM 76, SPM 37, GPM 118, SPP ON/OFF 1550/1400, TORQUE ON/OFF 1/1K. LOSING MUD @ 4688 INCREASED CFM TO 1200, 184 GPM

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
10/13/2008	8:28 - 8:29	0.02	DRLIN1	02	C	P		DRLG F/4851 T/4855 WOB 10K, RPM 20, RPM M/M 156, CFM 1200, GPM 184, SPM 37, GPM119, SPP ON/OFF 1460/1350, TORQUE ON/OFF 1.5/1K
	8:29 - 8:29	0.00	DRLIN1	09	C	P		DRLG F/4700 T/4851 WOB 10K, RPM 20, RPM M/M 156, CFM 1200, GPM 184, SPM 37, GPM119, SPP ON/OFF 1460/1350, TORQUE ON/OFF 1.5/1K SLIDE TOTAL OF 14'
	17:00 - 17:00	0.00	DRLIN1					"C B,,'\ 'LL
	17:00 - 18:00	1.00	DRLIN1	04	H	P		ATTEMPT TO AIREATE ANNULAR
	17:00 - 17:00	0.00	DRLIN1					
	18:00 - 19:30	1.50	DRLIN1	05	F	P		TOH TO 2982
	19:30 - 20:00	0.50	DRLIN1	04	G	P		UNLOAD HOLE @ 2982 WITH AIR
	20:00 - 21:00	1.00	DRLIN1	05	F	P		TIH TO 4448
	21:00 - 22:00	1.00	DRLIN1	04	H	P		UNLOAD HOLE @ 4448 WITH AIR
	22:00 - 22:30	0.50	DRLIN1	04	A	P		FILL PIPE & ANNULAR W/MUD, BREAK CIRC.
	22:30 - 23:30	1.00	DRLIN1	05	F	P		TIH F/4448 T/4851
10/14/2008	0:00 - 6:00	6.00	DRLIN1	02	C	P		DRLG F/4855 T/5050 WOB 11, SPM 37, GPM 119, CFM 1200, GPM 184, DOWN PARASITE STRING, RPM 20, M/M RPM 158, TORQUE ON/OFF 1.5/1K, SPP ON/OFF 1250/1200
	6:00 - 21:30	15.50	DRLIN1	02	C	P		DRLG F/5050 T/5077 WOB 11, SPM 12, GPM 38, CFM 500, GPM 76, DOWN DRILL PIPE, RPM 20, M/M RPM 158, TORQUE ON/OFF 1.5/1K, SPP ON/OFF 520/480
	21:30 - 0:00	2.50	DRLIN1	02	C	P		DRLG F/5050 T/5077 WOB 11, SPM 18, GPM 57, CFM 400, GPM 61, DOWN DRILL PIPE, RPM 20, M/M RPM 158, TORQUE ON/OFF 1.5/1K, SPP ON/OFF 520/480
10/15/2008	0:00 - 2:30	2.50	DRLIN1	13	B	P		RIG UP & PRESSURE TEST AIR EQUIPMENT FOR RUNNING AIR DOWN DP & AIR DOWN PARASITE STRING
	2:30 - 8:00	5.50	DRLIN1	02	C	P		DRLG F/5077 T/5176 WOB 11, RPM 25, RPM M/M 158 SPM 30, GPM 96, CFM D/DP 150, GPM 23,CFM D/PARASITE 350, GPM 53, SPP 825 ,TORQUE 1.8K
	8:00 - 18:00	10.00	DRLIN1	02	C	P		DRLG F/5176 T/5280 WOB 11, RPM 25, RPM M/M 158 SPM 30, GPM 96, CFM D/DP 150, GPM 23,CFM D/PARASITE 350, GPM 53, SPP 1070 ,TORQUE 2.1K
	8:00 - 8:00	0.00	DRLIN1	06	A	P		LUBRICATE RIG
	18:00 - 19:00	1.00	DRLIN1	07	A	X		CHANGE OUT 2" GATE VALVE ON STAND PIPE
	19:00 - 0:00	5.00	DRLIN1	02	C	P		DRLG F/5280 T/5347 WOB 11, RPM 25, RPM M/M 158 SPM 30, GPM 96, CFM D/DP 150, GPM 23,CFM D/PARASITE 350, GPM 53, SPP 1070 ,TORQUE 2.1K
10/16/2008	0:00 - 9:00	9.00	DRLIN1	02	C	P		DRLG F/5347 T/5456 WOB 11, RPM 25, RPM M/M 158, SPM 30, GPM 96, CFM D/DP 150, GPM 23, CFM D/PARASITE 350, GPM 53, SP 1070, TORQUE 2.1K
	9:00 - 9:30	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	9:30 - 17:00	7.50	DRLIN1	02	C	P		DRLG F/5456 T/5554 WOB 11, RPM 25, RPM M/M 158, SPM 27, GPM 86, CFM D/DP 200, GPM 30, CFM D/PARASITE 500, GPM 76, SP 1070, TORQUE 2.1K
	17:00 - 18:00	1.00	DRLIN1	16	D	X		TROUBLE SHOOT MWD TOOL
	18:00 - 21:30	3.50	DRLIN1	05	I	X		TOH FOR MWD TOOL

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	21:30 - 23:00	1.50	DRLIN1	05	A	P		LAY DOWN DIRECTIONAL TOOLS, BIT & MUD MTR.
	23:00 - 0:00	1.00	DRLIN1	05	A	P		PICK UP NEW MUD MTR, BIT & SCRIBE DIRECTIONAL TOOL
10/17/2008	0:00 - 2:00	2.00	DRLIN1	05	A	P		FINISH PROGRAMMING DIRECTIONAL TOOL, TIH TO 2500 & UNLOAD HOLE WITH AIR DOWN DP.
	2:00 - 4:00	2.00	DRLIN1	05	A	P		TIH TO 4300 & UNLOAD HOLE WITH AIR DOWN DP& PARASITE STRING
	4:00 - 6:00	2.00	DRLIN1	05	A	P		FINISH TIH TO BOTTOM & BREAK CIRC.
	6:00 - 16:30	10.50	DRLIN1	02	C	P		DRLG ROTATING F/5554 T/5647, WOB 11, RPM 25, RPM M/M 158, CFM DP 200, GPM 30, CFM PARASITE 680, GPM 104,SPP 950, TORQUE 2.1K
	16:30 - 17:00	0.50	DRLIN1	06	A	P		LUBRICATE RIG
	17:00 - 0:00	7.00	DRLIN1	02	C	P		DRLG ROTATING F/5647 T/5688, WOB 11, RPM 25, RPM M/M 158, CFM DP 200, GPM 30, CFM PARASITE 680, GPM 104,SPP 950, TORQUE 2.1K
10/18/2008	0:00 - 14:00	14.00	DRLIN1	02	C	P		DRLG F/ 5688 T5814/WOB 11, RPM 25, RPM M/M 158, SPM 28, GPM 89, CFM DP 200, GPM 30, CFM PARASITE 680, GPM 104, SPP 1050, TORQUE 2.1K
	14:00 - 19:00	5.00	DRLIN1	05	A	P		TRIP OUT. L/D DIRECTIONAL GAMMA TOOL AND CHECK MOTOR AND BIT.
	19:00 - 0:00	5.00	DRLIN1	05	A	P		MAKE UP TOOLS AND TRIP IN.
10/19/2008	0:00 - 1:30	1.50	DRLPRO	05	A	P		TRIP IN TO 4426'
	1:30 - 2:30	1.00	DRLPRO	06	D	P		SLIP AND CUT DRILLING LINE.
	2:30 - 3:00	0.50	DRLPRO	05	A	P		TRIP IN TO 5112'
	3:00 - 6:00	3.00	DRLPRO	02	G	P		TROUGH HOLE FOR SIDETRACK #1 AT 5113' (OPEN HOLE SIDETRACK)
	6:00 - 20:30	14.50	DRLPRO	02	G	P		TIME DRILL F/5113'-5137
	20:30 - 0:00	3.50	DRLPRO	05	A	P		TRIP OUT AND AJUST MOTOR TO 2.00 DEG. CHANGE BITS
10/20/2008	0:00 - 3:30	3.50	DRLPRO	05	A	P		AJUST MOTOR TO 2.00 DEG. TRIP IN HOLE.
	3:30 - 5:00	1.50	DRLPRO	03	E	P		WASH F/4571-5081 DRAGGING WALL.
	5:00 - 6:00	1.00	DRLPRO	02	G	P		TROUGH AT 5113'
	6:00 - 13:30	7.50	DRLPRO	02	G	P		TIME DRILL AT 5113'-5120' WOB 5-10, PSI 1340, CFM 700 PARASITE AT 1000 PSI. 2 ATTEMPT TO SIDETRACK WITH LEGDES BREAKING OFF. TOOL FACE AT 80-90 RIGHT.
	13:30 - 0:00	10.50	DRLPRO	02	G	P		TIME DRILL AT 5080 TO 5092' WOB 5-10, PSI 1340, CFM 700 PARASITE AT 1000 PSI. 2 ATTEMPT TO SIDETRACK WITH LEGDES BREAKING OFF. GOT UP TO 19 WOB ON 2ND ATTEMPT. WORKING ON 3RD ATTEMPT. TOOL FACE AT 105-120 RIGHT.
10/21/2008	0:00 - 9:30	9.50	DRLPRO	02	G	P		TIME DRILL AT 5080 TO 5092', 5140-5145' WOB 5-10, PSI 1340, CFM 700 PARASITE AT 1000 PSI. 2 ATTEMPT TO SIDETRACK WITH LEGDES BREAKING OFF. GOT UP TO 19 WOB ON 2ND ATTEMPT. WORKING ON 3RD ATTEMPT. TOOL FACE AT 105-120 RIGHT.
	9:30 - 10:00	0.50	DRLPRO	05	A	P		TRIP IN TO CASING.
	10:00 - 11:00	1.00	DRLPRO	06	A	P		RIG SERVICE
	11:00 - 14:00	3.00	DRLPRO	05	A	P		TRIP OUT PULL MWD TOOL, BREAK BIT AND CLEAN UP FLOOR

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	14:00 - 19:30	5.50	DRLPRO	13	C	P		TEST BOPE TESTED 250 LOWFOR 5 MINS. AND 3000 PSI FOR HIGH FOR 10 MINS. ON ALL VALVES, PIPE RAMS, BLIND RAMS. TEST ALL CHOKE LINES AND VALVES AND FLOOR VALVES. TESTED ANNULAR TO 1700 PSI. RAN ACCUM. TEST.
	19:30 - 0:00	4.50	DRLPRO	05	A	P		ADJUST MUD MOTOR FROM 2.00 DEG TO 1.37 DEG MAKE UP DIRECTIONALS TOOLS AND ORIENT. TRIP IN
10/22/2008	0:00 - 1:00	1.00	DRLPRO	05	A	P		TRIP IN BELOW SHOE AND BLOW DOWN WELL.
	1:00 - 2:00	1.00	DRLPRO	05	A	P		TRIP IN WASH 60' TO BTM. NO TIGHT SPOTS.
	2:00 - 3:00	1.00	DRLPRO	02	D	P		DRILLING F/5814-5819 WOB 2-10, 200 CFM DOWN DP, 700 ON PARASITE, 120 GPM, 25 RPM 159 RPM ON MTR, PSI ON/OFF 850/700, TORQUE ON/OFF 3/1
	3:00 - 5:30	2.50	DRLPRO	02	D	P		SLIDE DRILLING F/5819-5830 WOB 25, 200 CFM, 700 CFM ON PARASITE, 120 GPM, PSI ON/OFF 950/850,
	5:30 - 6:00	0.50	DRLPRO	02	D	P		DRILLING F/5830-5840 WOB 2-10, 200 CFM DOWN DP, 700 ON PARASITE, 120 GPM, 25 RPM 159 RPM ON MTR, PSI ON/OFF 850/700, TORQUE ON/OFF 3/1
	6:00 - 9:00	3.00	DRLPRO	02	D	P		SLIDE DRILLING F/5840- 5847 WOB 25, 200 CFM, 700 CFM ON PARASITE, 120 GPM, PSI ON/OFF 950/850,
	9:00 - 10:30	1.50	DRLPRO	02	D	P		DRILLING F/5847- 5871' WOB 2-10, 200 CFM DOWN DP, 700 ON PARASITE, 120 GPM, 25 RPM 159 RPM ON MTR, PSI ON/OFF 850/700, TORQUE ON/OFF 3/1
	10:30 - 12:30	2.00	DRLPRO	02	D	P		SLIDE Drilling 5871' - 5878', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6 VIS = 35, FOOTAGE = 7' , FPH = 3.5 , TOOL FACE =
	12:30 - 14:30	2.00	DRLPRO	02	D	P		ROTATE Drilling 5878' - 5913', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6, VIS = 35, FOOTAGE = 35' , FPH = 17.5 ,
	14:30 - 17:00	2.50	DRLPRO	02	D	P		SLIDE Drilling 5913' -5916', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6 VIS = 35, FOOTAGE = 3' , FPH = 1.2 , TOOL FACE = 10L
	17:00 - 18:30	1.50	DRLPRO	02	D	P		ROTATE Drilling 5916' - 5931', WOB 5-15K, GPM= 116 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE = 15' , FPH = 10 ,
	18:30 - 19:30	1.00	DRLPRO	06	A	P		LUBERCATE RIG, AND CHANGE OUT GASKET ON FLOW SENSOR

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	19:30 - 20:00	0.50	DRLPRO	02	D	P		ROTATE Drilling 5931' - 5935', WOB 5-15K, GPM= 222 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE = 4' , FPH = 2 ,
	20:00 - 23:30	3.50	DRLPRO	02	D	P		SLIDE Drilling 5935' -5938', WOB 5-15K, GPM= 222 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.6VIS = 35, FOOTAGE = 3' , FPH = .86 , TOOL FACE = 20R
	23:30 - 0:00	0.50	DRLPRO	02	D	P		ROTATE Drilling 5938' - 5939', WOB 5-15K, GPM= 222 PUMP # 1 = 27, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 159, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = OK, MUD WT = 8.VIS = 35, FOOTAGE = 1' , FPH = 2 ,
10/23/2008	0:00 - 1:00	1.00	DRLPRO	02	A	P		Rotate Drilling 5939' - 5943', WOB 5-15K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE = 4' , FPH = 4 ,
	1:00 - 2:00	1.00	DRLPRO	02	C	P		Slide Drilling 5943' - 5944', WOB 20-25K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 1000/1200 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 950 TORQUE ON / OFF BTM = 0K, MUD WT = 8.VIS = 35, FOOTAGE = 1' , FPH = 1, TOOL FACE 20R
	2:00 - 5:30	3.50	DRLPRO	05	A	P		TOOH at 5944' to inspect mud motor
	5:30 - 6:00	0.50	DRLPRO	05	A	P		Drain mud motor and inspect bit, laid down motor
	6:00 - 14:30	8.50	DRLPRO	05	A	P		Pickup mud motor and check. TIH to 3871'. Unload hole w/ 700 scfm air. TIH to 4680'. Unload hole. TIH to 5871'
	14:30 - 15:00	0.50	DRLPRO	03	D	P		Wash and ream 5871' - 5950'
	15:00 - 16:30	1.50	DRLPRO	02	A	P		Slide Drilling 5944' - 5950', WOB 30-34K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 1093 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 860 TORQUE ON / OFF BTM = 0K, MUD WT = 8.VIS = 35, FOOTAGE = 6' , FPH = 4, TOOL FACE 2L
	16:30 - 18:00	1.50	DRLPRO	02	D	P		Rotate Drilling 5950' - 5960', WOB 10K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 860 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE =18 ' , FPH = 10 ,

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	18:00 - 19:00	1.00	DRLPRO	02	D	P		Rotate Drilling 5960' - 5968', WOB 10K, GPM= 120 PUMP # 1 = 28, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 160, PRESS ON OFF, BTM = 960 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 860 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.VIS = 35, FOOTAGE =18 ' , FPH = 8 ,
	19:00 - 21:30	2.50	DRLPRO	05	A	P		TOOH TO REPLACE 3- 3/4 MUD MOTOR AND BIT
	21:30 - 22:30	1.00	DRLPRO	05	A	P		BREAK BIT L/D M/M PICKUP NEW MUD MOTOR
	22:30 - 0:00	1.50	DRLPRO					PULL MWD TOOL CHANGE OUT BATTERY AND CALLABRATE TOOL
10/24/2008	0:00 - 2:30	2.50	DRLPRO	05	A	P		TIH TO 4585'
	2:30 - 3:30	1.00	DRLPRO	04	A	P		BLOW DOWN HOLE W/700 SCFM
	3:30 - 5:30	2.00	DRLPRO	05	A	P		TIH 4580' TO 5745', Tight at 5350', 5630', 5695'
	5:30 - 6:00	0.50	DRLPRO	02	D	P		Rotate Drilling 5968' - 5973', WOB 2-6K, GPM= 128 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1050 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 5' , FPH = 10 ,
	6:00 - 8:00	2.00	DRLPRO	02	D	P		Slide Drilling 5973' - 5983', WOB 6K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM =25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1140 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 10' , FPH = 5, TOOL FACE 20R
	8:00 - 8:30	0.50	DRLPRO	02	D	P		Rotate Drilling 5983' - 6000', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1051/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.5K, MUD WT = 8.4, VIS = 35, FOOTAGE = 17' , FPH = 34 ,
	8:30 - 10:00	1.50	DRLPRO	02	D	P		Slide Drilling 6000' - 6008', WOB 16K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 185, PRESS ON OFF, BTM = 1140 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 8' , FPH = 5.3, TOOL FACE 10R
	10:00 - 11:00	1.00	DRLPRO	02	D	P		Rotate Drilling 6008' - 6030', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1051/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 22' , FPH = 22,
	11:00 - 13:00	2.00	DRLPRO	02	D	P		Slide Drilling 6030' - 6038', WOB 16K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 185, PRESS ON OFF, BTM = 1148/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 7' , FPH = 3.5,
	13:00 - 13:30	0.50	DRLPRO	12	E	Z		Trouble shoot MWD and Gamma

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	13:30 - 15:00	1.50	DRLPRO	02	D	P		Rotate Drilling 6038' - 6064', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 26' , FPH = 17.3,
	15:00 - 17:30	2.50	DRLPRO	02	D	P		Slide Drilling 6064' - 6074', WOB 14K, GPM= 124 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 0, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 960 TORQUE ON / OFF BTM = 0K, MUD WT = 8.4 VIS = 36, FOOTAGE = 10', FPH = 4,
	17:30 - 19:00	1.50	DRLPRO	02	D	P		Rotate Drilling 6074' - 6096', WOB 10K, GPM= 128 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 8.4, VIS = 35, FOOTAGE = 22' , FPH = 14.6,
	19:00 - 21:00	2.00	DRLPRO	02	D	P		Slide Drilling 6096' - 6100', WOB 20-30K, GPM= 127 PUMP # 1 =30, SPM = PUMP #2 = 0 SPM, RPM =25, MOTOR RPM = 188, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 930 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 4', FPH =1.33', TOOL FACE = 0
	21:00 - 22:30	1.50	DRLPRO	02	D	P		Rotate Drilling 6100' -6127', WOB 10K, GPM= 128 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, RPM = 25, MOTOR RPM = 185, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 960 TORQUE ON / OFF BTM = 2.1K, MUD WT = 85, VIS = 34, FOOTAGE = 27' , FPH =18
	22:30 - 0:00	1.50	DRLPRO	02	D	P		Slide Drilling 6127' - 6133', WOB 20-30K, GPM= 127 PUMP # 1 =30, SPM = PUMP #2 = 0 SPM, RPM =25, MOTOR RPM = 188, PRESS ON OFF, BTM = 1112/1001 PSI , SCFM DOWN PARASITE = 700, PARASITE PSI = 930 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 6', FPH =4', TOOL FACE - 0
10/25/2008	0:00 - 1:30	1.50	DRLPRO	02	D	P		Slide Drilling 6133' - 6137', WOB 10K, GPM= 127 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 200 SCFM = 30 GPM, RPM = 25, MOTOR RPM = 169, PRESS ON OFF, BTM = 1100 PSI , SCFM DOWN PARASITE =700, PARASITE PSI = 930 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 4' , FPH = 2.7FOOL FACE 0 R
	1:30 - 6:30	5.00	DRLPRO	02	D	P		Rotate Drilling 6137' - 6202', WOB = 10K, GPM = 127 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 700 SCFM , RPM = 25, MOTOR RPM = 169, PRESS ON/OFF, BTM = , SCFM DOWN PARASITE = 1200, PARASITE PSI = 930 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.5, VIS = 35, FOOTAGE = ' 65, FPH = 1.3, Increased air down parasite to 1200 scfm and 300 down drill pipe at 07:00 hours. Lost approximately 142 bbls mud between 05:30 - 07:00

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	6:30 - 10:30	4.00	DRLPRO	02	D	P		Slide Drilling 6202' - 6211', WOB = 40K, GPM = 74 PUMP # 1 = 23, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 300 SCFM = 46 GPM, RPM = 0, MOTOR RPM = 180 PRESS ON/OFF, BTM = 1100 PSI , SCFM DOWN PARASITE = 1200, PARASITE PSI = 975 TORQUE ON / OFF BTM = 0K, MUD WT = 8.5 VIS = 35, FOOTAGE = 9, FPH = 2.25, FOOL FACE = 0
	10:30 - 12:00	1.50	DRLPRO	02	D	P		Rotate Drilling 6211' - 6217', WOB = 10-12K, GPM = 120 PUMP # 1 = 29, SPM = PUMP #2 = 0 SPM, AIR DOWN DP =200 SCFM = 1000 GPM, RPM = 25, MOTOR RPM = 175, PRESS ON/OFF, BTM = 1036 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 990 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.4, VIS = 35, FOOTAGE = ' 6, FPH = 4
	12:00 - 18:00	6.00	DRLPRO	05	A	P		TOOH at 6217' to replace bit and BHA
	18:00 - 19:00	1.00	DRLPRO	06	A	P		Rig service
	19:00 - 21:00	2.00	DRLPRO	05	A	P		TIH to 4530' Install rotating head
	21:00 - 22:30	1.50	DRLPRO	05	D	P		Unload Hole at 4530' 1000 CFM down Parasite 700 cfm down drill pipe
	22:30 - 0:00	1.50	DRLPRO	05	A	P		TIH 4530' to 6187' Ream 90' to bottom. Log gamma over last 30' due to BHA change
10/26/2008	0:00 - 0:30	0.50	DRLPRO	05	A	P		TIH
	0:30 - 3:00	2.50	DRLPRO	02	D	P		Rotate Drilling 6217' to 6234", WOB = 10-12K, GPM = 127 PUMP # 1 = 30, SPM = PUMP #2 = 0 SPM, AIR DOWN DP =200 SCFM = 1000 GPM, RPM = 25, MOTOR RPM = 169, PRESS ON/OFF,BTM = 1036 PSI , SCFM DOWN PARASITE = 1000, PARASITE PSI = 990 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.5, VIS = 35, FOOTAGE =17 ' , FPH =6.8
	3:00 - 6:00	3.00	DRLPRO	05	A	P		POOH
	6:00 - 9:00	3.00	DRLPRO	05	A	P		Change out mud motors, make up bit, scribe tools and TIH to 3900', Install rotating head
	9:00 - 10:30	1.50	DRLPRO	06	D	P		Dock top drive, cut drilling line and 2 point calibrate
	10:30 - 11:00	0.50	DRLPRO	06	A	P		Rig Service
	11:00 - 14:30	3.50	DRLPRO	05	A	P		TIH to 4650' and unload hole w/ 800 scfm air and 16 gpm down DP and 1200 scfm down parasite string
	14:30 - 15:00	0.50	DRLPRO	05	D	P		Break circulation and wash 6206' - 6234'
	15:00 - 18:00	3.00	DRLPRO	02	D	P		Rotate Drilling 6234' to 6239", WOB = 9k, GPM = 123 PUMP # 1 = 39, SPM = PUMP #2 = 0 SPM, AIR DOWN DP = 200 SCFM = 30 GPM, RPM = 25, MOTOR RPM = 184, PRESS ON/OFF,BTM = 1036 PSI , SCFM DOWN PARASITE = 1300, PARASITE PSI =700 TORQUE ON / OFF BTM = 3/1K, MUD WT = 8.5, VIS = 35, FOOTAGE =5 ' , FPH =1.6
	18:00 - 21:00	3.00	DRLPRO	05	A	P		TOOH to check bit and motor
	21:00 - 22:00	1.00	DRLPRO	05	A	P		Break bit and mud motor. It took 3000 foot pounds of torque to attempt to drain motor and motor did not drain good. Bit showed flat crested wear down where cutters were the same height as the ROP limiters button
	22:00 - 0:00	2.00	DRLPRO	05	A	P		Download Gamma log from tools
10/27/2008	0:00 - 9:00	9.00	DRLPRO	12	E	S		Wait on mud motor
	9:00 - 10:30	1.50	DRLPRO	05	A	P		Strap and pickup Bico mud motor and insert Gamma tool

Operation Summary Report

Well: BLACKHAWK A-5H			
Project: UTAH	Site: CARBON		Rig Name No: H&P 298/298
Event: DRILLING	Start Date: 7/30/2008	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	10:30 - 13:00	2.50	DRLPRO	05	A	P		TIH to 4170' and install rotating head
	13:00 - 14:30	1.50	DRLPRO	12	A	P		Wait on orders
	14:30 - 15:00	0.50	DRLPRO	06	A	P		Rig service
	15:00 - 16:00	1.00	DRLPRO	07	B	S		Check lower quill bearing retainer, change oil in top drive and change swivel packing
	16:00 - 18:00	2.00	DRLPRO	05	A	S		TOOH w/ directional tools, Pull R/T head
	18:00 - 19:30	1.50	DRLPRO	05	A	S		Lay down direcrtional tools
	19:30 - 21:30	2.00	DRLPRO	05	A	S		Rig up lay down machine
	21:30 - 0:00	2.50	DRLPRO	05	A	S		Lay down 5 1/2" casing.
10/28/2008	0:00 - 4:30	4.50	DRLPRO	05	A	S		Laying down 5-1/2 casing
	4:30 - 6:00	1.50	DRLPRO	05	A	S		Rig down casing, And lay down truck
	6:00 - 7:00	1.00	DRLPRO	05	A	S		Rig down power tong. Test TIW valve, and high/ low travel limits
	7:00 - 7:30	0.50	DRLPRO	06	A	P		Rig service
	7:30 - 10:30	3.00	DRLPRO	05	A	P		TIH, to 4400'
	10:30 - 12:00	1.50	DRLPRO	04	A	P		Circulate twice and spot high viscosity pill at 4400'. Pull up to 4300'
	12:00 - 12:30	0.50	DRLPRO	15	E	P		Safety meeting with Halliburton and rig up
	12:30 - 13:00	0.50	DRLPRO	15	E	P		Mix and spot 50 sacks class "G" Neat cement plug at 15.8 ppg, yeild 1.15, 4.97 gallons per sack water with Halad 322 plug at 4300'. BLM representative Walton Willis decline to witness setting plug
	13:00 - 13:30	0.50	DRLPRO	05	A	P		TOOH, 8 stands
	13:30 - 0:00	10.50	DRLPRO	15	A	P		Circulate casing clean and WOC
10/29/2008	0:00 - 1:00	1.00	DRLPRO	12	B	P		Wait on cement, circulate while waiting.
	1:00 - 2:00	1.00	DRLPRO	05	C	P		TIH to 4100'
	2:00 - 6:30	4.50	DRLPRO	05	C	P		Tag cement @ 4100'
	6:30 - 7:30	1.00	DRLPRO	05	C	P		Rig down cement equipment.
	7:30 - 8:00	0.50	DRLPRO	05	A	P		Rig up lay down crew.
	8:00 - 12:30	4.50	DRLPRO	05	A	P		Lay down 2-7/8 drill string.
	12:30 - 14:00	1.50	DRLPRO	05	A	P		TIH, drill collars and drill pipe.
	14:00 - 17:30	3.50	DRLPRO	05	A	P		Lay down drill collarsand drill pipe.
	17:30 - 19:00	1.50	DRLPRO	11	A	P		Rig down lay down truck.
	19:00 - 0:00	5.00	DRLPRO	13	A	P		Nipple down rotate head and BOP equipment.
10/30/2008	0:00 - 12:00	12.00	DRLPRO	13	A	P		Nipple down and pickup annular and set aside. Open doors on rental double gate and remove H&P rams and install rental rams, open doors on H&P double gate and install H&P rams, changed rams and top seals. Nipple down rental double gate and set out. Nipple down H&P spacer spool and set out. Pickup H&P's annular and nipple up to H&P double gate. Nipple down kill line and choke lines. Pickup BOP stack and set on BOP carrier. Nipple up master flange and valve to sucure well.
	12:00 - 0:00	12.00	DRLPRO	01	E	P		RIG RELEASED at 12:00 hours on 10/30/08

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: FEE *UTU71675

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: Blackhawk A-5H

2. NAME OF OPERATOR: Anadarko Petroleum Corporation

9. API NUMBER: 43-007-314 02

3. ADDRESS OF OPERATOR: 1099 18th St. Ste 1800 CITY Denver STATE CO ZIP 80202

PHONE NUMBER: (720) 929-6832

10. FIELD AND POOL, OR WILDCAT: Helper/Ferron A

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1142' FNL, 263' FEL Lat: 39.685470 Long: 110.817271

COUNTY: Carbon

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: Leave Location as is
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko Petroleum Corporation requests the permission to leave the Blackhawk A-5H location and pit as is. The pit will be fenced for safety reasons and the location will be maintained.

This request is subsequent to the decision of suspending drilling for one year to evaluate best drilling practices to the targeted coal section. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 1-7-09

By:

NAME (PLEASE PRINT) Cindy B. Vue TITLE Regulatory Analyst

SIGNATURE DATE 11/24/2008

(This space for State use only)

COPY SENT TO OPERATOR

Date: 1.8.2009

Initials: KS

RECEIVED
NOV 25 2008
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – *Other instructions on page 2.*

5. Lease Serial No.
UTU71675

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
BLACKHAWK A-5H

2. Name of Operator
ANADARKO PETROLEUM CORPORATION

9. API Well No.
43-007-31402

3a. Address
1099 18th St. Ste 1800
Denver, CO 80202

3b. Phone No. *(include area code)*
720-929-6832

10. Field and Pool or Exploratory Area
Ferron

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
NENE Sec 20, T13S-R10E
1142' FNL, 263' FEL LAT: 39.685470 LONG: 110.817271

11. Country or Parish, State
CARBON, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☑ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☑ Temporarily Abandon	_____
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	_____

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Currently this well is still in review and is Shut-in/Temporarily Abandoned until further notice. No activity is anticipated in the next three months.

A well status update will be sent in four months if not sooner. Thank you.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Cindy B. Vue

Title REGULATORY ANALYST

Signature Cindy B Vue

Date 12/03/2008

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

RECEIVED
DEC 08 2008
DIV. OF OIL, GAS & MINING

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 71675 *FEE

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: N/A

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: N/A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM

8. WELL NAME and NUMBER: BLACKHAWK A-5H

2. NAME OF OPERATOR: ANADARKO PETROLEUM CORPORATION

9. API NUMBER: 4300731402

3. ADDRESS OF OPERATOR: PO BOX 173779 CITY DENVER STATE CO ZIP 80217-3779

PHONE NUMBER: (720) 929-6832

10. FIELD AND POOL, OR WILDCAT: HELPER/ FERRON A

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1142' FNL, 263' FEL LAT: 39.685470 LONG: -110.817271

COUNTY: CARBON

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: NENE 20 13S 10E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☑ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Status Update: TA
Well has a 200' Cement plug from 4100'-4300'.
Drilling Operations are still suspended pending further evaluation. Thank you.

NAME (PLEASE PRINT) Cindy B. Vue TITLE Regulatory Analyst I

SIGNATURE [signature] DATE 3/11/2009

(This space for State use only)

RECEIVED
MAR 16 2009
DIV. OF O[illegible]

(5/2000) (See Instructions on Reverse Side)

FORM 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

5. LEASE DESIGNATION AND SERIAL NO.: UTU 71675

1a. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Dry ☒ Other CBM
b. Type of Completion: ☒ New Well ☐ Workover ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other

6. INDIAN ALLOTTEE OR TRIBE NAME: N/A
7. UNIT AGREEMENT: N/A

2. Name of Operator: ANADARKO PETROLEUM CORPORATION

8. FARM OR LEASE NAME: Blackhawk A-5H

3. Address: P.O. BOX 173779, DENVER, CO 80217-3379

3a. Phone No. *(include area code)*: Cindy Vue 720-929-6832

9. API WELL NO.: 43-007-31402

4. Location of Well *(Report location clearly and in accordance with Federal requirements)**
At surface: 1142' FNL 263' FEL NE NE Lat. 39.68547 Long. -110.817271
At top prod. Interval reported below: approx 806 FNL approx 869 FEL
At total depth: ~~2367 fsl~~ 3025 FNL ~~2171 fel~~ 2148 FEL approx footage from surface hole per HSM review

10. FIELD NAME: Helper/ Ferron A

11. SEC. T. R. M., OR BLOCK AND SURVEY OR AREA: 20 T 13S R 10E

12. COUNTY OR PARISH: CARBON
13. STATE: UTAH

14. Date Spudded: 8/9/2008
15. Date T.D. Reached: 10/26/2008
16. Date Completed: 10/30/2008 ☒ D & A ☐ Ready to Prod.
17. ELEVATIONS (DF, RKB, RT, GR, etc.)*: 6423' GR KB

18. Total Depth: MD 6239' TVD ~~4028~~ 3982
19. Plug back T.D.: MD 4100' TVD
20. Depth Bridge Plug Set: MD TVD

21. Type Electric & other Logs Run (Submit a copy of each): Gamma Ray

22. Was well cored? ☐ No ☒ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit report)
Directional Survey? ☐ No ☒ Yes (Submit copy)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/ Grade	Wt. (#/ft.)	Top (MD)	Bottom(MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (Bbl)	Cement Top*	Amount Pulled
13.5"	10-3/4"/H-40	32.75#	0'	530'		350 sx Class G	74		
8.75"	7"/ J-55	23#	0'	4490'		980 sx Class G	210		
TA Plug			4100'	4300'		50 sx Class G	10		

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Inteval	Size	No. of Holes	Perf. Status
A) n/a						
B)						
C)						
D)						

27. Acid,Fracture Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
n/a	n/a

28. Production- Interval A-B-C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil Bbl	Gas MCF	Water Bbl	Oil Gravity	Gas Gravity	Production Method

Choke Size	Tbg. Press Flwg. SI	Csg Press.	24 Hr. Rate →	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status
								TA

28a. Production- Interval B

Date First Produced	Test Date	Hours Tested	Test Production →	Oil Bbl	Gas MCF	Water Bbl	Oil Gravity	Gas Gravity	Production Method

Choke Size	Tbg. Press Flwg. SI	Csg Press.	24 Hr. Rate →	Oil Bbl	Gas MCF	Water Bbl	Gas: Oil Ratio	Well Status

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DIV. OF OIL, GAS & MINING

** See instructionsand spaces for additional data on page 2)*

28b. Production- Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil Bbl	Gas MCF	Water Bbl	Oil Gravitv	Gas Gravity	Production Method
Choke Size	**Tbg. Press Flwg. SI**	**Csg Press.**	**24 Hr. Rate →**	**Oil Bbl**	**Gas MCF**	**Water Bbl**	**Gas: Oil Ratio**	**Well Status**	

28c. Production- Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil Bbl	Gas MCF	Water Bbl	Oil Gravitv	Gas Gravity	Production Method
Choke Size	**Tbg. Press Flwg. SI**	**Csg Press.**	**24 Hr. Rate →**	**Oil Bbl**	**Gas MCF**	**Water Bbl**	**Gas: Oil Ratio**	**Well Status**	

29. Disposition of Gas *(Sold, used for fuel, vented, etc.)*

30. Summary of Porous Zones (include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers:

Formation	Top	Bottom	Descriptions Contents, Etc.	Name	Top Measured Depth
				Ferron	3873'
				TD.	6239'

32. Additional remarks (include plugging procedure):

8/23/08 -Core well from 3840-4095'

8/29/08 -Isolation Plug: 3246-3714' Class G Cmt-175 sx

10/28/08 -Cement Plug 4100-4300' Class G- 50 sx. (BLM Rep Walton Willis declined to witness setting plug.)

No Core Analysis yet, analysis will be sent when it is available.
Please refer to sundry notice sent 10/27/2008 for the Drilling Summary Report.
Thank you.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

☐ Electrical/ Mechanical Logs (1 full set required) ☐ Geologic Report ☐ DST Report X Directional Survey

☐ Sundry Notice for plugging and cement verification ☐ Core Analysis ☐ Other:

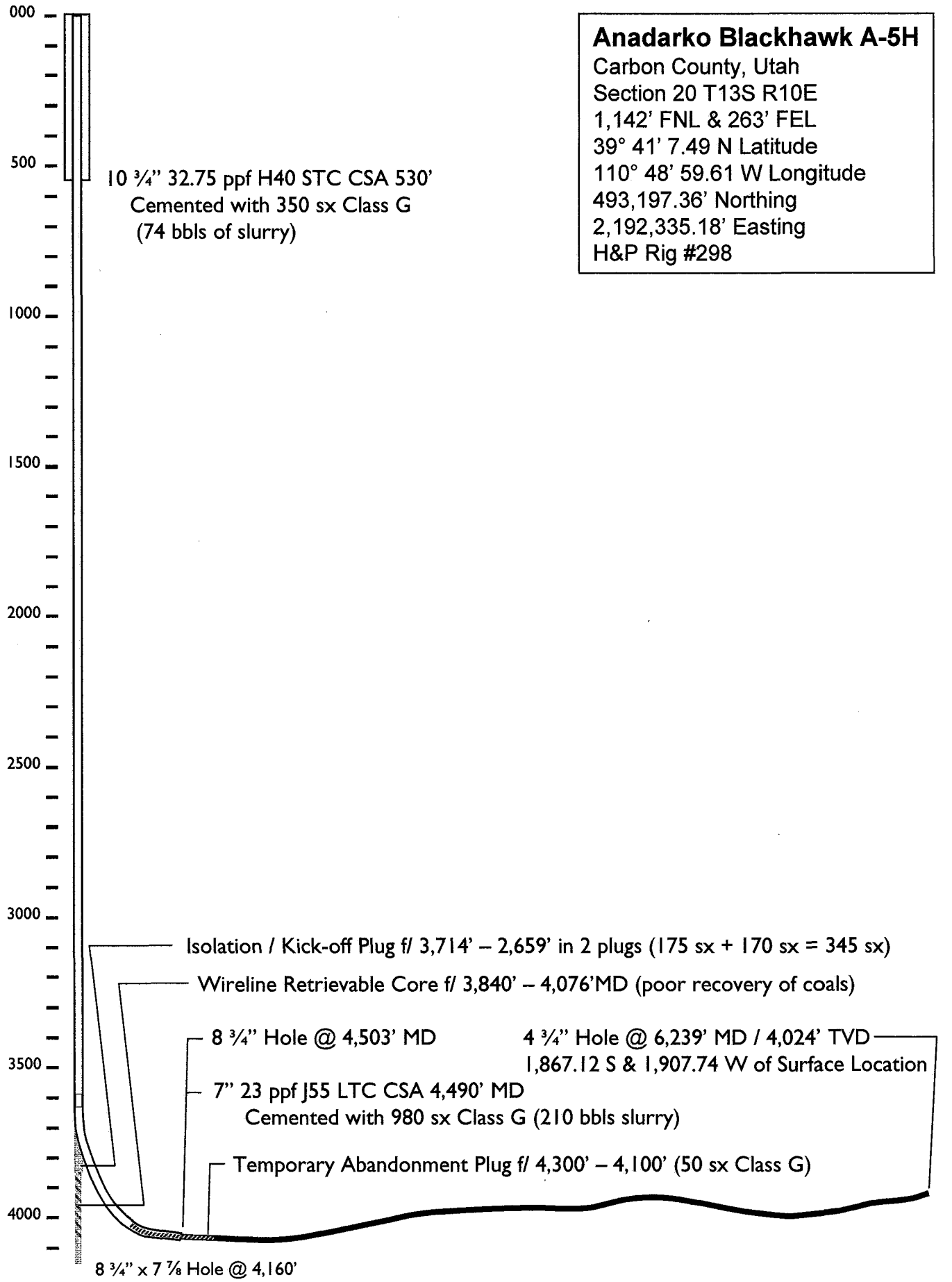
34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Cindy Vue Title Regulatory Analyst I

Signature Date 3/26/2009

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent ststements or representations as to any matter within its jurisdiction.

(Continued on page 3)


000
500
1000
1500
2000
2500
3000
3500
4000
10 ¾" 32.75 ppf H40 STC CSA 530'
Cemented with 350 sx Class G
(74 bbls of slurry)
Anadarko Blackhawk A-5H
Carbon County, Utah
Section 20 T13S R10E
1,142' FNL & 263' FEL
39° 41' 7.49 N Latitude
110° 48' 59.61 W Longitude
493,197.36' Northing
2,192,335.18' Easting
H&P Rig #298
Isolation / Kick-off Plug f/ 3,714' – 2,659' in 2 plugs (175 sx + 170 sx = 345 sx)
Wireline Retrievable Core f/ 3,840' – 4,076'MD (poor recovery of coals)
8 ¾" Hole @ 4,503' MD
4 ¾" Hole @ 6,239' MD / 4,024' TVD
1,867.12 S & 1,907.74 W of Surface Location
7" 23 ppf J55 LTC CSA 4,490' MD
Cemented with 980 sx Class G (210 bbls slurry)
Temporary Abandonment Plug f/ 4,300' – 4,100' (50 sx Class G)
8 ¾" x 7 ⅞ Hole @ 4,160'

Anadarko
E&P Company LP

Anadarko Petroluem Corp

CARBON CO, UTAH
BLACKHAWK A-5H
BLACKHAWK A-5H

ML

Survey: FINAL

Standard Survey Report

14 November, 2008

Weatherford®

Anadarko E&P Company LP

BLACKHAWK A-5H ML
CARBON CO, UTAH
SEC 20 T13S R10E
1142' FNL, 263' FEL
39° 41' 7.490 N
110° 48' 59.610 W
RIG: H&P 298

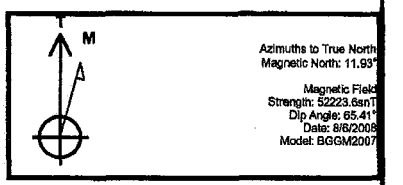
Weatherford

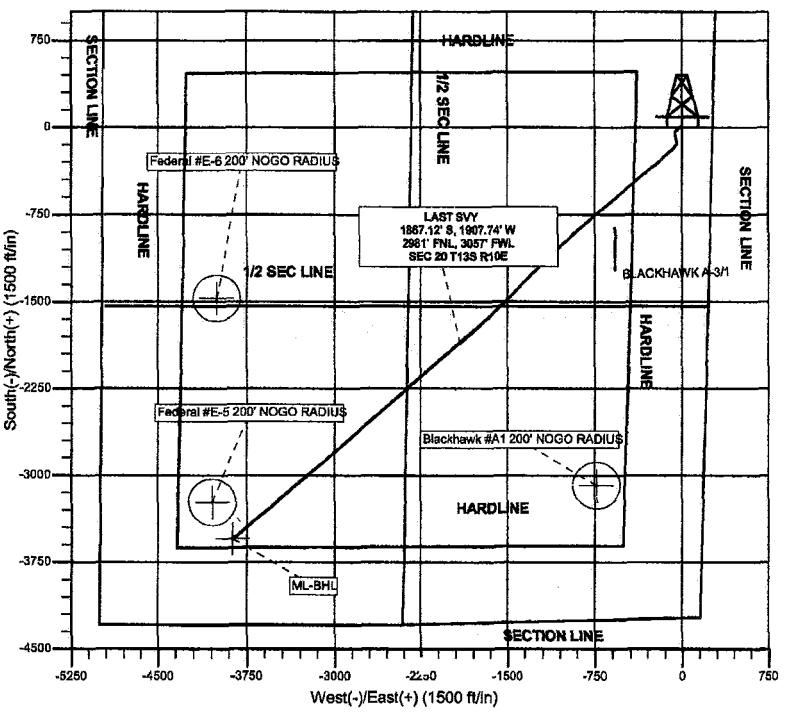
WELL DETAILS: BLACKHAWK A-5H

+N/-S	+E/-W	Northing	Ground Level: Easting	6391.01 Latitude	Longitude	Slot
0.00	0.00	493197.36	2192335.18	39° 41' 7.490 N	110° 48' 59.610 W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	5745.00	86.63	225.68	4042.36	-1534.40	-1545.21	0.00	0.00	2175.96	
2	5809.37	93.58	229.06	4042.25	-1577.97	-1592.54	12.00	25.97	2240.29	
3	8827.06	93.58	229.06	3854.00	-3551.47	-3867.68	0.00	0.00	5250.89	ML-BHL

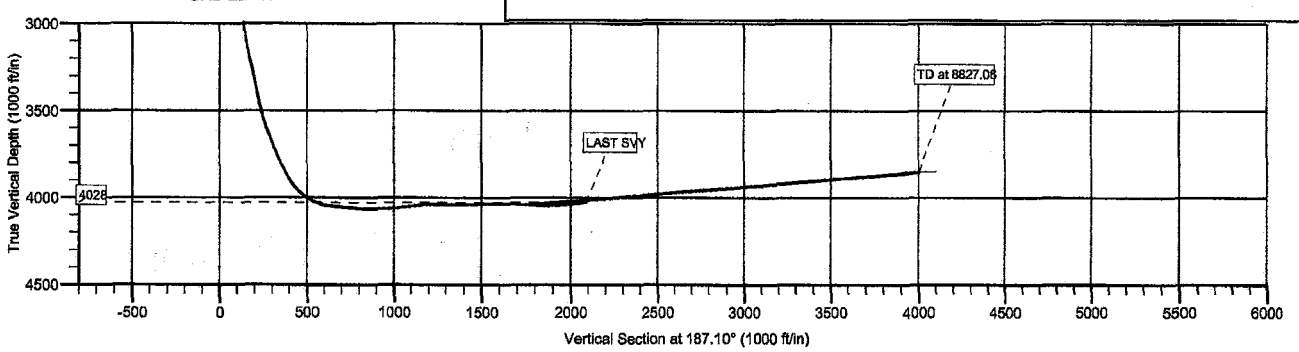




EXT.TD: MWD (BLACKHAWK A-5H/ML)

MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
6238.00	95.88	228.18	4028.02	-1867.12	-1907.74	0.00	0.00	2088.52

KB ELEV: SITE @ 6411.01ft
GRD ELEV: 6391.01



Survey: MWD (BLACKHAWK A-5H/ML)

Created By: Robert H. Scott

Company:	Anadarko Petroluem Corp	**Local Co-ordinate Reference:**	Well BLACKHAWK A-5H
Project:	CARBON CO, UTAH	**TVD Reference:**	SITE @ 6411.01ft
Site:	BLACKHAWK A-5H	**MD Reference:**	SITE @ 6411.01ft
Well:	BLACKHAWK A-5H	**North Reference:**	True
Wellbore:	ML	**Survey Calculation Method:**	Minimum Curvature
Design:	Survey	**Database:**	EDM 2003.21 Single User Db

Project CARBON CO, UTAH, SEC 20 T13S-R10E

Map System:	US State Plane 1927 (Exact solution)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site BLACKHAWK A-5H, SEC 20 T13S R10E

Site Position:		**Northing:**	493,197.36ft	**Latitude:**	39° 41' 7.490 N
From:	Lat/Long	**Easting:**	2,192,335.18ft	**Longitude:**	110° 48' 59.610 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	0.00ft	**Grid Convergence:**	0.44 °

Well BLACKHAWK A-5H

Well Position	**+N/-S**	0.00 ft	**Northing:**	493,197.36 ft	**Latitude:**	39° 41' 7.490 N
	+E/-W	0.00 ft	**Easting:**	2,192,335.18 ft	**Longitude:**	110° 48' 59.610 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	6,391.01 ft

Wellbore ML

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	BGGM2007	8/6/2008	11.93	65.41	52,224

Design Survey

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	187.10

Survey Program **Date** 11/14/2008

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
100.00	3,000.00	GYRO (ML)	GYRO	GyroCompass Mode
3,088.00	6,238.00	MWD (ML)	MWD	MWD - Standard

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100ft)**	**Build Rate (°/100ft)**	**Turn Rate (°/100ft)**
3,000.00	5.26	162.00	2,994.47	-133.12	-44.61	137.61	0.00	0.00	0.00
3,088.00	7.25	186.18	3,081.95	-142.48	-43.96	146.82	3.70	2.26	27.48
3,151.00	12.19	209.43	3,144.05	-152.24	-47.66	156.96	9.87	7.84	36.90
3,214.00	15.69	215.68	3,205.19	-164.95	-55.90	170.60	6.04	5.56	9.92
3,277.00	16.06	222.93	3,265.79	-178.26	-66.80	185.14	3.20	0.59	11.51
3,340.00	16.25	227.93	3,326.31	-190.54	-79.28	198.88	2.23	0.30	7.94
3,372.00	16.38	228.39	3,357.02	-196.54	-85.98	205.66	0.57	0.41	1.44
3,404.00	16.06	230.93	3,387.75	-202.33	-92.79	212.24	2.43	-1.00	7.94
3,435.00	16.13	233.06	3,417.53	-207.62	-99.56	218.33	1.92	0.23	6.87
3,467.00	16.38	232.18	3,448.25	-213.05	-106.68	224.60	1.10	0.78	-2.75
3,498.00	17.94	230.18	3,477.87	-218.79	-113.80	231.18	5.38	5.03	-6.45
3,530.00	18.69	229.68	3,508.25	-225.27	-121.49	238.55	2.39	2.34	-1.56

Company:	Anadarko Petroluem Corp	**Local Co-ordinate Reference:**	Well BLACKHAWK A-5H
Project:	CARBON CO, UTAH	**TVD Reference:**	SITE @ 6411.01ft
Site:	BLACKHAWK A-5H	**MD Reference:**	SITE @ 6411.01ft
Well:	BLACKHAWK A-5H	**North Reference:**	True
Wellbore:	ML	**Survey Calculation Method:**	Minimum Curvature
Design:	Survey	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,561.00	20.50	230.31	3,537.45	-231.95	-129.46	246.17	5.88	5.84	2.03
3,593.00	23.19	229.43	3,567.15	-239.63	-138.56	254.91	8.47	8.41	-2.75
3,625.00	24.69	226.31	3,596.40	-248.34	-148.18	264.75	6.13	4.69	-9.75
3,656.00	25.25	225.06	3,624.50	-257.48	-157.54	274.97	2.48	1.81	-4.03
3,688.00	25.88	222.56	3,653.37	-267.45	-167.09	286.04	3.90	1.97	-7.81
3,719.00	26.06	221.56	3,681.24	-277.53	-176.19	297.17	1.53	0.58	-3.23
3,750.00	27.38	223.43	3,708.93	-287.80	-185.60	308.53	5.05	4.26	6.03
3,782.00	29.06	226.93	3,737.13	-298.45	-196.34	320.42	7.37	5.25	10.94
3,813.00	29.69	227.43	3,764.14	-308.79	-207.50	332.06	2.18	2.03	1.61
3,845.00	31.19	228.43	3,791.73	-319.65	-219.53	344.32	4.95	4.69	3.12
3,876.00	33.50	231.68	3,817.92	-330.28	-232.25	356.44	9.32	7.45	10.48
3,908.00	35.94	233.43	3,844.22	-341.35	-246.73	369.22	8.24	7.62	5.47
3,935.00	38.25	233.93	3,865.76	-351.00	-259.85	380.41	8.63	8.56	1.85
3,967.00	41.74	233.34	3,890.27	-363.19	-276.40	394.56	10.97	10.91	-1.84
3,998.00	44.75	230.81	3,912.85	-376.25	-293.14	409.59	11.20	9.71	-8.16
4,029.00	46.75	229.81	3,934.48	-390.43	-310.23	425.77	6.85	6.45	-3.23
4,062.00	50.50	230.18	3,956.29	-406.35	-329.19	443.91	11.39	11.36	1.12
4,093.00	55.62	229.52	3,974.91	-422.32	-348.12	462.10	16.60	16.52	-2.13
4,125.00	61.19	229.81	3,991.67	-439.96	-368.89	482.16	17.42	17.41	0.91
4,156.00	66.38	230.68	4,005.36	-457.73	-390.27	502.44	16.93	16.74	2.81
4,187.00	68.56	229.18	4,017.24	-476.17	-412.18	523.44	8.33	7.03	-4.84
4,219.00	70.69	229.56	4,028.38	-495.70	-434.94	545.64	6.75	6.66	1.19
4,250.00	74.19	229.56	4,037.73	-514.87	-457.43	567.44	11.29	11.29	0.00
4,282.00	81.50	229.81	4,044.46	-535.09	-481.27	590.45	22.86	22.84	0.78
4,313.00	85.00	230.56	4,048.11	-554.80	-504.92	612.93	11.54	11.29	2.42
4,345.00	85.56	229.68	4,050.74	-575.25	-529.39	636.25	3.25	1.75	-2.75
4,377.00	85.19	227.68	4,053.32	-596.31	-553.34	660.10	6.34	-1.16	-6.25
4,408.00	85.25	229.43	4,055.90	-616.75	-576.50	683.26	5.63	0.19	5.65
4,440.00	85.63	229.56	4,058.45	-637.47	-600.75	706.81	1.25	1.19	0.41
4,452.00	85.81	229.06	4,059.34	-645.27	-609.82	715.68	4.42	1.50	-4.17
4,537.00	86.69	229.65	4,064.90	-700.52	-674.18	778.45	1.25	1.04	0.69
4,542.00	86.38	229.56	4,065.21	-703.75	-677.98	782.13	6.46	-6.20	-1.80
4,575.00	87.75	228.93	4,066.90	-725.27	-702.95	806.56	4.57	4.15	-1.91
4,607.00	89.13	229.15	4,067.77	-746.24	-727.10	830.36	4.37	4.31	0.69
4,638.00	90.13	228.43	4,067.97	-766.66	-750.42	853.50	3.97	3.23	-2.32
4,670.00	90.81	228.93	4,067.70	-787.79	-774.45	877.44	2.64	2.12	1.56
4,702.00	90.94	228.31	4,067.22	-808.94	-798.46	901.39	1.98	0.41	-1.94
4,733.00	90.63	228.68	4,066.79	-829.48	-821.68	924.65	1.56	-1.00	1.19
4,765.00	91.19	228.68	4,066.28	-850.61	-845.71	948.58	1.75	1.75	0.00
4,796.00	92.88	228.56	4,065.18	-871.08	-868.95	971.77	5.47	5.45	-0.39
4,828.00	93.50	228.68	4,063.40	-892.20	-892.92	995.69	1.97	1.94	0.37
4,860.00	94.00	228.18	4,061.31	-913.39	-916.81	1,019.67	2.21	1.56	-1.56
4,892.00	94.19	228.81	4,059.02	-934.54	-940.72	1,043.61	2.05	0.59	1.97
4,923.00	94.75	228.68	4,056.61	-954.92	-963.95	1,066.71	1.85	1.81	-0.42
4,955.00	95.13	229.06	4,053.85	-975.89	-987.96	1,090.48	1.68	1.19	1.19
4,986.00	94.81	228.93	4,051.17	-996.16	-1,011.27	1,113.47	1.11	-1.03	-0.42
5,018.00	95.25	229.18	4,048.36	-1,017.05	-1,035.35	1,137.18	1.58	1.37	0.78
5,049.00	94.44	228.18	4,045.74	-1,037.44	-1,058.55	1,160.28	4.14	-2.61	-3.23
5,081.00	92.31	227.31	4,043.86	-1,058.92	-1,082.19	1,184.52	7.19	-6.66	-2.72
5,113.00	90.94	225.93	4,042.95	-1,080.89	-1,105.44	1,209.19	6.08	-4.28	-4.31
5,144.00	89.50	225.31	4,042.83	-1,102.57	-1,127.59	1,233.44	5.06	-4.65	-2.00
5,187.00	89.06	224.31	4,043.37	-1,133.07	-1,157.89	1,267.46	2.54	-1.02	-2.33
5,207.00	89.00	224.43	4,043.71	-1,147.37	-1,171.88	1,283.37	0.67	-0.30	0.60
5,239.00	90.88	223.93	4,043.74	-1,170.32	-1,194.18	1,308.90	6.08	5.87	-1.56

Company:	Anadarko Petroluem Corp	**Local Co-ordinate Reference:**	Well BLACKHAWK A-5H
Project:	CARBON CO, UTAH	**TVD Reference:**	SITE @ 6411.01ft
Site:	BLACKHAWK A-5H	**MD Reference:**	SITE @ 6411.01ft
Well:	BLACKHAWK A-5H	**North Reference:**	True
Wellbore:	ML	**Survey Calculation Method:**	Minimum Curvature
Design:	Survey	**Database:**	EDM 2003.21 Single User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,278.00	91.06	224.93	4,043.08	-1,198.16	-1,221.47	1,339.90	2.60	0.46	2.56
5,302.00	90.50	223.68	4,042.76	-1,215.34	-1,238.24	1,359.01	5.71	-2.33	-5.21
5,334.00	90.13	223.93	4,042.58	-1,238.43	-1,260.39	1,384.67	1.40	-1.16	0.78
5,366.00	90.44	224.31	4,042.42	-1,261.40	-1,282.66	1,410.22	1.53	0.97	1.19
5,397.00	91.13	223.93	4,042.00	-1,283.65	-1,304.24	1,434.96	2.54	2.23	-1.23
5,429.00	92.00	223.18	4,041.12	-1,306.84	-1,326.28	1,460.69	3.59	2.72	-2.34
5,461.00	91.75	223.31	4,040.08	-1,330.13	-1,348.20	1,486.52	0.88	-0.78	0.41
5,492.00	92.44	223.06	4,038.94	-1,352.72	-1,369.40	1,511.55	2.37	2.23	-0.81
5,524.00	91.44	222.18	4,037.86	-1,376.25	-1,391.05	1,537.58	4.16	-3.12	-2.75
5,556.00	90.56	222.81	4,037.30	-1,399.85	-1,412.66	1,563.66	3.38	-2.75	1.97
5,587.00	89.88	223.68	4,037.18	-1,422.43	-1,433.90	1,588.69	3.56	-2.19	2.81
5,619.00	89.00	224.81	4,037.49	-1,445.35	-1,456.23	1,614.20	4.48	-2.75	3.53
5,651.00	88.75	224.56	4,038.12	-1,468.10	-1,478.73	1,639.55	1.10	-0.78	-0.78
5,682.00	87.81	225.18	4,039.05	-1,490.06	-1,500.59	1,664.04	3.63	-3.03	2.00
5,714.00	86.75	224.93	4,040.57	-1,512.64	-1,523.21	1,689.24	3.40	-3.31	-0.78
5,745.00	86.63	225.68	4,042.36	-1,534.40	-1,545.21	1,713.56	2.45	-0.39	2.42
5,777.00	89.13	229.15	4,043.55	-1,556.04	-1,568.75	1,737.94	13.36	7.81	10.84
5,808.00	86.69	226.68	4,044.68	-1,576.80	-1,591.74	1,761.38	11.20	-7.87	-7.97
5,840.00	87.94	226.93	4,046.18	-1,598.67	-1,615.04	1,785.97	3.98	3.91	0.78
5,872.00	88.63	226.56	4,047.13	-1,620.59	-1,638.34	1,810.60	2.45	2.16	-1.16
5,903.00	89.63	226.93	4,047.60	-1,641.83	-1,660.91	1,834.46	3.44	3.23	1.19
5,935.00	90.25	226.68	4,047.64	-1,663.74	-1,684.24	1,859.08	2.09	1.94	-0.78
5,967.00	90.94	227.56	4,047.31	-1,685.51	-1,707.69	1,883.59	3.49	2.16	2.75
5,999.00	92.13	228.81	4,046.45	-1,706.84	-1,731.53	1,907.70	5.39	3.72	3.91
6,030.00	92.44	227.43	4,045.21	-1,727.51	-1,754.59	1,931.06	4.56	1.00	-4.45
6,062.00	92.94	227.43	4,043.71	-1,749.14	-1,778.13	1,955.43	1.56	1.56	0.00
6,093.00	94.06	227.18	4,041.82	-1,770.12	-1,800.87	1,979.06	3.70	3.61	-0.81
6,125.00	94.06	227.18	4,039.55	-1,791.81	-1,824.28	2,003.48	0.00	0.00	0.00
6,156.00	96.69	227.81	4,036.65	-1,812.67	-1,847.03	2,026.99	8.72	8.48	2.03
6,188.00	95.88	228.18	4,033.15	-1,833.95	-1,870.67	2,051.03	2.78	-2.53	1.16
6,238.00	95.88	228.18	4,028.02	-1,867.12	-1,907.74	2,088.52	0.00	0.00	0.00
LAST SVY									

Survey Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
6,238.00	4,028.02	-1,867.12	-1,907.74	EXT. TD

Checked By: _____ Approved By: _____ Date: _____

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

5. Lease Serial No.
UTU 71675

6. If Indian, Allottee or Tribe Name
N/A

7. If Unit of CA/Agreement, Name and/or No.
N/A

1. Type of Well
☐ Oil Well ☐ Gas Well ☑ Other CBM

8. Well Name and No.
BLACKHAWK A-5H

2. Name of Operator
ANADARKO PETROLEUM CORPORATION

9. API Well No.
43-007-31402

3a. Address
PO BOX 173779
DENVER CO 80217-3779

3b. Phone No. *(include area code)*
720-929-6832

10. Field and Pool or Exploratory Area
HELPER/FERRON A

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
1142' FNL, 263' FEL LAT: 39.685470 LONG: -110.817271
NENE SEC 20 T13S-R10E

11. Country or Parish, State
CARBON, UT

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☑ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

Anadarko respectfully requests to leave Blackhawk A-5H Temporarily Abandoned for 2010.
This well has a 200' cement plug from 4100-4300'.

Anadarko has concluded to plug and abandon this well in 2011. Thank you.

COPY SENT TO OPERATOR
Date: 11·16·2009
Initials: KS

REQUEST DENIED
Utah Division of
Oil, Gas and Mining
Date: 11/3/09
By:
* See requirements of R649-3-36

RECEIVED
OCT 08 2009
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
CINDY B. VUE

Title REGULATORY ANALYST I

Signature

Date 10/05/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	Office	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

API Well No: 43007314020000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BLACKHAWK A-5H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43007314020000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 307-752-1169 Ext

9. FIELD and POOL or WILDCAT: HELPER

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1142 FNL 0263 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 20 Township: 13.0S Range: 10.0E Meridian: S

COUNTY: CARBON

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/1/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko respectfully requests to Plug & Abandon the following well location. Attached is the PA Procedure. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: November 16, 2010

By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Emily Carrender	720 929-6282	Operations Specialist I
SIGNATURE N/A		**DATE** 10/18/2010

RECEIVED October 18, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43007314020000

1. Notify the Division at least 24 hours prior to conducting abandonment operations. Please call Dan Jarvis at 801-538-5338.

2. Existing Plug #1 @ 4100' should be tagged.

3. Amend Plug #2: For the proposed 200' of cement coverage, 40 sx of cement would be required. Note: Procedure states 5 ½" casing in hole, records show 7" casing in hole.

4. For Plugs #3 and #4, a minimum of 20 sx is required for each of the proposed 100' plugs.

5. All balanced plugs shall be tagged to ensure they remain at the depth specified by the proposal.

6. All annuli shall be cemented from a minimum depth of 100' to the surface.

7. Surface reclamation shall be done in accordance with R649-3-34 – Well Site Restoration.

8. All requirements in the Oil and Gas Conservation General Rule R649-3-24 shall apply.

9. If there are any changes to the plugging procedure or the wellbore configuration, notify Dustin Doucet at 801-538-5281 (ofc) or 801-733-0983 (home) prior to continuing with the procedure.

10. All other requirements for notice and reporting in the Oil and Gas Conservation General Rules shall apply.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: November 16, 2010

By:

Wellbore Diagram

API Well No: 43-007-31402-00-00 **Permit No:** **Well Name/No:** BLACKHAWK A-5H

Company Name: ANADARKO PETROLEUM CORP

Location: Sec: 20 T: 13S R: 10E Spot: NENE

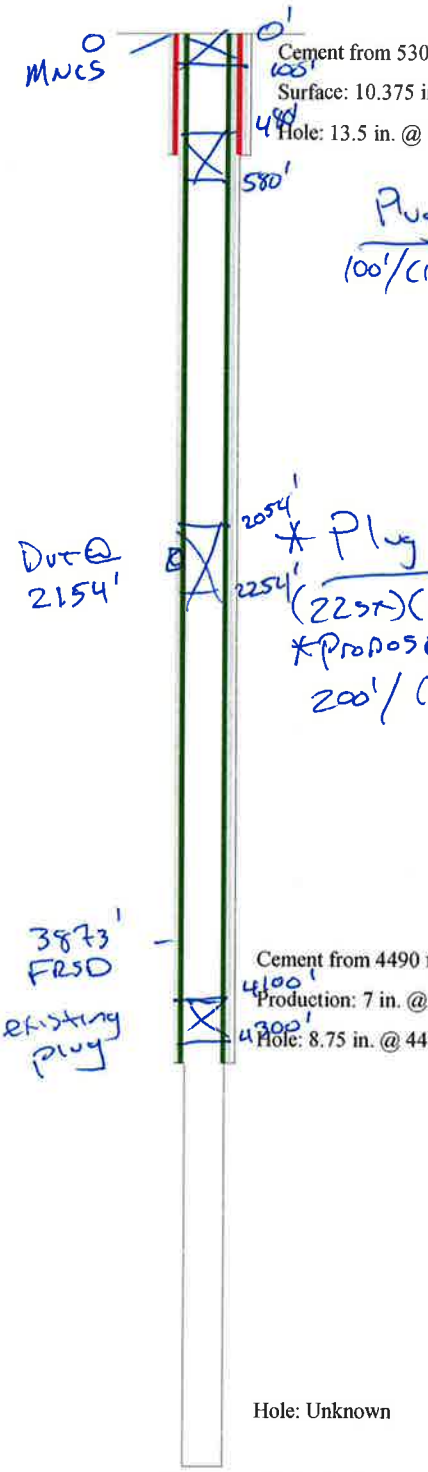
Coordinates: X: 515751 Y: 4392602

Field Name: HELPER

County Name: CARBON

String Information

String	Bottom (ft sub)	Diameter (inches)	Weight (lb/ft)	Length (ft)	Capacity (f/cf)
HOL1	530	13.5			
SURF	530	10.375	32.7	530	
HOL2	4490	8.75			
PROD	4490	7	23	4490	4.524



Cement Information

String	BOC (ft sub)	TOC (ft sub)	Class	Sacks
PROD	4490	0	G	980
SURF	530	0	G	350

Perforation Information

Formation Information

Formation	Depth
MNCS	0
FRSD	3873

Approved by the Utah Division of Oil, Gas and Mining

Date: November 16, 2010

By: Dustin Doucet

TD: 6239 **TVD:** 4024 **PBTD:** 4100

ANADARKO PETROLEUM CORPORATION
BLACKHAWK A-5H
NE NE 20 13S 10E 1,142' FNL 263' FEL
LAT: 39.68550 **LONG:** -110.81730
CARBON,UTAH
10/13/2010

AREA: **ROUTE:** **Spud: 08/14/2008** **WINS No.: 68173** **AFE/WO#: tba** **API#: 4300731402**

GL: 6397 **KB: 6423** **MTD: 6239** **TVD: 4050** **LOG MD:** **PBMD: 4100** **PBTVD: 2190**

Directions:

TUBULARS	Tool Type	Joints	Size	Weight	Grade	Thread	Condition	Top D	Bottom D
SURFACE CASING									
	Casing	12	10.75	32.75	H-40	STC	NEW	-3	485
	Float Collar	1	10.75		K-55			485	487
	Casing	1	10.75	32.75	H-40	STC	NEW	487	528
	Casing Shoe	1	10.75		K-55			528	530
INTERMEDIATE CASING									
	Casing	1	7.00	23.00	J-55	STC	NEW	-5	25
	Casing Hanger	1	7.00		J-55			25	31
	Casing	49	7.00	23.00	J-55	LTC	NEW	31	2152
	Stage Collar	1	7.00		J-55			2152	2155
	Casing	7	7.00	23.00	J-55	LTC	NEW	2155	2456
	Casing	46	7.00	23.00	J-55	LTC	NEW	2456	4444
	Casing Float Collar	1	7.00		J-55			4444	4445
	Casing	1	7.00	23.00	J-55	LTC	NEW	4445	4488
	Casing Float Shoe	1	7.00		J-55			4488	4490

CEMENT TYPE	Stage	Sacks	Cement Type		Top D	Btm D	cbl	est	Comments
SURFACE CASING CEMENT									
	PRIM CMT 1ST STAGE	350	LEAD	TAIL	0	530	No		FULL 22.00
INTERMEDIATE CASING CEMENT									
	PRIM CMT 1ST STAGE	550	TAIL	STAGE 2	3110	4490	No		
	PRIM CMT 2ND STAGE	430	LEAD	STAGE 1	0	2154	No		
INTERMEDIATE CASING CEMENT									
	ABANDONMENT PLUG	50	LEAD	NEAT	4100	4300	No		FULL 0.00

PERFORATIONS

Formation	Zone	Top	Btm	spf	Shots	Date	Reason	Comments	Producing

Comments:

Proposed Completion Procedure

1.. **MIRU workover rig.**
2.. **Circulate hole with produced brine water.**
3.. **Abandonment plug already in wellbore 4100'-4300'.**
4.. **MIRU cementing services.**
5.. **Spot 22 sks Class G 1.15 yeild cement from 2054'-2254', across DV tool at 2154', 200' fill in 5.5" casing.**
6.. **Wait on cement.**
7.. **Surface casing shoe: PU to surface casing shoe. Pump 11.5 sks Class G 1.15 yield cement for 100' plug from 480'-580'. WOC.**
8.. **Surface plug: PU to 100' below surface. Pump 11.5 sks Class G 1.15 yield cement from 100' to surface.**
9.. **Cut off wellhead 3' below final ground grade.**
10.. **Install P&A marker with well name, footages from section lines, API#, date of plugging and GPS coordinates to the 5th decimal.**
11.. **File subsequent P&A sundry with as plugged wellbore diagrams.**
12.. **Reclaim location.**

Proposed Perforation Intervals

Top	Btm	Zone	Comments

ANADARKO PETROLEUM CORPORATION
BLACKHAWK A-5H
NE NE 20 13S 10E 1,142' FNL 263' FEL
LAT: 39.68550 **LONG:** -110.81730
CARBON,UTAH
10/13/2010

AREA: **ROUTE:** **Spud: 08/14/2008** **WINS No.: 68173** **AFE/WO#: tba** **API#: 4300731402**

GL: 6397 **KB: 6423** **MTD: 6239** **TVD: 4050** **LOG MD:** **PBMD: 4100** **PBTVD: 2190**

Directions:

Engineer: JAMIE TRINIE 720-878-2008 **Foreman: KIRT RASMUSSEN**

Lead Pumper: **Authorized By: CHARLEY DEIN**

RECEIVED October 18, 2010

ANADARKO PETROLEUM CORPORATION
Denver Office 1099 18th Street
Denver, CO 80202

Date: ***10/13/2010***

Authorization

PERMANENT

BLACKHAWK A-5H
NE NE 20 13S 10E 1,142' FNL 263' FEL
LAT: 39.68550 **LONG:** -110.81730
CARBON,UTAH

AREA: **ROUTE:** **Spud: 08/14/2008** **WINS No.: 68173** **AFE/WO#: tba** **API#: 4300731402**

GL: 6397 **KB: 6423** **MTD: 6239** **TVD: 4050** **LOG MD:** **PBMD: 4100** **PBTVD: 2190**

Approved: _____ **Date:** _____ **Area Engineer**

Approved: _____ **Date:** _____ **Engineering Manager**

RECEIVED October 18, 2010

API Well No: 43007314020000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BLACKHAWK A-5H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43007314020000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 307-752-1169 Ext

9. FIELD and POOL or WILDCAT: HELPER

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1142 FNL 0263 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 20 Township: 13.0S Range: 10.0E Meridian: S

COUNTY: CARBON

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 11/29/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: Extension Request

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Anadarko is respectfully requesting a 3 week extension for closing the pit on the following well location. The pad is on the side of a hill the contractor says that it will take 3 weeks to move all the material back to original contour and close the pit. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 12/09/2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Emily Carrender	720 929-6282	Operations Specialist I
SIGNATURE N/A		**DATE** 11/23/2010

RECEIVED November 23, 2010

API Well No: 43007314020000

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5.LEASE DESIGNATION AND SERIAL NUMBER: FEE

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: BLACKHAWK A-5H

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43007314020000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 307-752-1169 Ext

9. FIELD and POOL or WILDCAT: HELPER

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1142 FNL 0263 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 20 Township: 13.0S Range: 10.0E Meridian: S

COUNTY: CARBON

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 12/8/2010	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	✓ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The following well location has been Plugged and Abandoned on 12/08/2010.
Attached: Operation Summary Report and Cementing Report. Thank you.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
12/15/2010

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Emily Carrender	720 929-6282	Operations Specialist I
SIGNATURE N/A		**DATE** 12/15/2010

RECEIVED December 15, 2010

Operation Summary Report

Well: BLACKHAWK A-5H

Project: UTAH-CARBON	Site: BLACKHAWK A-5H		Rig Name No: NABORS 808/808
Event: ABANDONMENT	Start Date: 11/19/2010	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date		Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ftKB)	Operation
11/19/2010	DWC:	$6,930.00		CWC:	$6,930.00				
KIRT RASMUS	7:00	- 18:00	11.00	ABAND	30	A	S		7:00 AM CHECK WELL, PUMPING UNIT DOWN, RESTART, RESPACE RODS, RIG DOWN LOAD EQUIP, CLEAN UP LOCATION, PRE TRIP INEP, MOVE RIG & EQUIP FROM NORTH BENCH FED. # 21-28, TO HELPER BLACKHAWK # A-5H, (21.5 MI), SET EQUIP, STAND UP RIG, CHECK WELL FOR PRESS, REMOVE 11 WELLHEAD, NIPPLE UP ADAPTOR FLANGE & BOP, RIG DOWN FLOOR, PREP TO WORK ON WELL, 6:00 PM SDFWE.
11/22/2010	DWC:	$5,430.00		CWC:	$12,360.00				
KIRT RASMUS	7:00	- 15:00	8.00	ABAND	30	A	P		7:00 AM CHECK WELL FOR PRESS, NO PRESS, TALLY & PICK UP 27/8" TBG, NOTCHED PINNED COLLAR ON BTM, RUN 78 JTS TBG, TAG CMT @ 2477', (1623' ABOVE PROJECTED CMT TOP), FILL CSG, PRESS TEST TO 1000#, UNABLE TO PRESS TEST, PUMPING INTO DV TOOL @ 500#, PULL & LAY DOWN 7 JTS 27/8" TBG, PULL 5 STDS TBG, CLOSE WELL IN FOR NIGHT, 3:00 PM SDFD
11/23/2010	DWC:	$17,215.00		CWC:	$29,575.00				
KIRT RASMUS	5:00	- 16:00	11.00	ABAND	30	A	P		5:00 AM CHECK WELL, RIH W/ 27/8" TBG, EOT @ 2256', RIG UP SANJEL CMT TRUCK, PRESS TEST, EST CIRC, SPOT 200' CMT PLUG @ 2257' IN 7" CSG, PULL 10 STANDS OF TBG, REVERSE CIRC TBG CLEAN, WAIT ON CMT TO SET UP, RIH TAG CMT @ 2025' STACK OUT @ 2045', PULL 9 STANDS OF TBG, POOH LAYING DOWN 53 JTS 27/8" TBG, RIH W/ 9 STD'S TBG, EOT @ 586', RIG UP SANJEL PUMP TRUCK, SPOT 100' CMT PLUG FROM 587', POOH W/ 9 STD'S TBG, CLOSE WELL IN FOR NIGHT, DRAIN UP LINES, ETC. 4:00 PM SDFD
11/24/2010	DWC:	$13,910.00		CWC:	$43,485.00				
KIRT RASMUS	5:00	- 17:00	12.00	ABAND	30	C	P		5:00 AM CHECK WELL FOR PRESS, RIH W/ 27/8" TBG, TAG CEMENT @ 450', POOH LAYING DOWN 27/8" TBG, RIG UP FLOOR, STRIP OFF BOP & ADAPTOR SPOOL, RIH W/ 3 JTS 27/8" TBG, RIG UP SANJEL CMT TRUCK, SPOT CEMENT PLUG FROM 115' TO SURFACE, POOH LAYING DOWN TBG, TOP OFF CMT PLUG, RIG DOWN RIG & EQUIP, WELL'S PLUGGED., 5:00 PM SDFWE.
11/30/2010	DWC:	$300.00		CWC:	$43,785.00				
KIRT RASMUS		-		MAINT	30		P		MIRU; NIELSON WATER TRUCK PUMPED 160 BBL'S FRESH WATER DOWN SURFACE CASING. RDMO
12/7/2010	DWC:	$16,209.71		CWC:	$59,994.71				
KIRT RASMUS		-		ABAND	51		P		HELD SAFETY MEETING; RIG UP & TEST SANJEL EQUIP. TO 3,000#. PUMP 2 BBL'S ESTABLISH INJECTION, PUMP 200 SACKS CLASS "G" CEMENT. DISPLACE W/ 3 BBL'S. CLEAN TRUCKS. MAX PSI WAS 230 PSI. RDMO

Well: BLACKHAWK A-5H

Project: UTAH-CARBON	Site: BLACKHAWK A-5H		Rig Name No: NABORS 808/808
Event: ABANDONMENT	Start Date: 11/19/2010	End Date:	Spud Date: 8/14/2008
Active Datum: RKB @6,423.00ft (above Mean Sea Level)	UWI: 0/13/S/10/E/20/0/NENE/6/PM/N/1,142.00/E/0/0/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
12/8/2010	DWC: $1,400.00		CWC: $61,394.71					
KIRT RASMUS	-		ABAND	51		P		CHECK AREA FOR GAS. HELD SAFETY MEETING. CUT OFF WELLHEAD - WELD ON WELL MARKER PLATE. UTAH STATE DOGM HAND WITNESSED MARKER. (MARK JONES). COVERED UP MARKER.

Sanjel — A Specialized Energy Service Company

Pre-Job Safety Meeting - Job Safety Analysis (JSA)

Customer Name: Anadarko **Date:** 11/24/10 **Service Ticket No.:** 915670

Total People on Location: 11 **Location:** Sec 20 T 13S R 10E

Emergency Response Plan: (muster point, emergency procedures, location of emergency shower, eyewash station, fire extinguishers, first aid kits)
Meet At location Entrance Take A Head Count
Use [illegible] pickup to get to nearest medical

How do we signal "STOP WORK"? Verbal shout out, Hand signal across throat

Safety Meeting Discussion: (Topics should include brief job scope, PPE, site specific hazards, environmental issues, people's responsibilities)
Know your responsibility, Keep Eyes on Task
Keep people Away From surface Treating Lines
Wear proper PPE Around cement Dust & Slurry

Job Safety Analysis:

1. Break the job down into steps.	2. Identify the hazards associated with each step.	3. Develop ways to control the hazards.
Sequence of Basic Job Steps	**Potential Hazards**	**Recommended Controls**
Spot Trucks	Equipment on Location	Slow Down
	Guide lines on Rig	Use 2 spotters
	People	Look Twice
Rig up	pinch Points	Gloves
	Hammer Swings	Line of fire
	Slips & Trips	Watch Footing
Run Job	Pressure Testing	Keep People Clear
	Cement Dust, Slurry	PPE
	Climbing on and off Pump	3 point Contact
Rig out	Heavy Lifting	Team lifting
	Taking Iron off Rig floor	Use winch Line

Attendees: (Print name and sign. If there is not enough lines use a second document from this book and enter the same Service Ticket No.)

[signatures]

Customer Representative: Print Name ____ Signature ____

Sanjel Supervisor: Cody Bushnell (Print Name) [signature] (Signature)

RECEIVED December 15, 2010

Sanjel (USA) Inc.
200, 505 - 2nd Street SW
Calgary, Alberta, T2P 1N8
Telephone: (403) 269-1420

Sanjel

SERVICE TICKET 9151066

This service ticket is not an invoice; pricing is subject to review and change without notice.

Field	Entry
Client Name	[illegible]
Address	1099 18th St
City	Denver
Province/State	Co
Postal/Zip Code	80202
Well Name	[illegible]
Location	Sec 20 T13S R 1 E
Client Representative	Kirt Rasmussen
Job Type	Top Off
State	Co
Country	USA
Job Date	12-06-10
Service Point	[illegible]
Pricing Area	A
State	WY
AFE/PO#	205182

District	Service, Equipment & Material Type	12 Code	Quantity	Unit Price	Amount	
47	Base Charge to Pump Truck		one	4300	4300	00
	Travel Charge Pump Truck		230	7.5	1725	00
	Cement Blending		210	3.3	693	00
	Cement Delivery		9.8		5747	70
	Data Acquisition	1497	one	1015	1015	00
	0-1-0 G Cement		200	27	5400	00
	CFR		94	10.2	958	80
	CaCl2		376	1.8	676	80
	Envirobag		one	78	78	00
	DF-3		one	141	141	00
	Subtotal				20735	30
	less 30% discount				<6220	59>
	Subtotal				14514	71
	Environmental Surcharge		one	50	50	00
	Subsistence 4 men/355 each		4	355	1420	00
	Thank you					
	MTS - C9 [illegible] 003565					

USE2SG6608
Kirt Rasmussen!

FIELD ESTIMATE 15984.71

- ☐ Cementing - Prim.
- ☒ Cementing - Rem.
- ☐ Coiled Tubing
- ☐ Nitrogen
- ☐ Stimulation
- ☐ Fracturing
- ☐ MPCTU
- ☐ Other

Field	Sales 1	Sales 2

This space is reserved for the Client Coding Stamp.

Comments

This signature confirms that I have read and comply with the terms and conditions as noted on the reverse of this document.

X [signature]

U4006 REV.0, 06/08

RECEIVED December 15, 2010

Stimulation and Remedial Cementing Service Report

Sanjel

SERVICE TICKET

[illegible]

Client Name	Well Name	Job Date
[illegible]	[illegible]	[illegible]
Client Representative [illegible]	**Location** [illegible]	**Job Type** [illegible]

Well Data:

Description	Size (in)	Weight (lb/ft)	Grade	Max. Press. (psi)	True Measured Depth (TMD) Start (ft)	End (ft)	Capacity (bbls)	Packers and Workover Tools Type	TMD (ft)
Tubing								Production Packer	
								Retrievable Packer	
Casing	[illegible]	[illegible]			0	[illegible]		Cement Retainer	
								Bridge Plug	
Perforations/OH								Selective Injection Packer	

Formation Data:

Name	Type	Well Type	Temp (°F)	Pressure (psi)	Height (ft) Gross	Net	Permeability (mD)	Porosity (%)
			[illegible]					

Fluid and Cement Data:

Wellbore Fluid: Type: Density: (lb/gal) | **Temp: (°F) Water: Bulk: Slurry:**

#	Sacks	Volume (bbls)	Density (lb/gal)	Description	% - Additive	% - Additive	% - Additive	% - Additive
		6	8.3	H2O				
	200	41	15.8	[illegible] G	0.5% CFR	2% CaCl2		

Fluid Compatibility Testing*:

Acid Titration: ________ **(% HCl Equivalent)**

Stability: **Pass:** ❑ **Fail:** ❑ **N/A** ❑

Iron Control (Live Acid): **Pass:** ❑ **Fail:** ❑ **N/A** ❑

Emulsion Break Time: **Live:** ________ **min.**

Spent: ________ **min.**

Compatibility Tests:

Mesh Size: ________ **Time at BHT:** ________ **min.**

Live Acid: **Pass:** ❑ **Fail:** ❑ **N/A** ❑

Spent Acid: **Pass:** ❑ **Fail:** ❑ **N/A** ❑

Testing Witnessed by: (Oil Company Representative)	Signature:

Treatment Report:

Event #	Time	Pressure (psi) Tubular	Annular	Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
1	800							**Arrive on Location - Time Requested:** 8:00
2	900							**Safety Meeting** [illegible]
3	1027							**Pressure Test** 2500
4	1029	220		3	4	4	4	Injection Test
5	1031	230		3	41	45	45	Pump Slurry @ 15.8 ppg
6	1046	230		3	2	47	47	Displace
								SAM Card #: **Start:** **Finish:**

Personnel & Equipment:

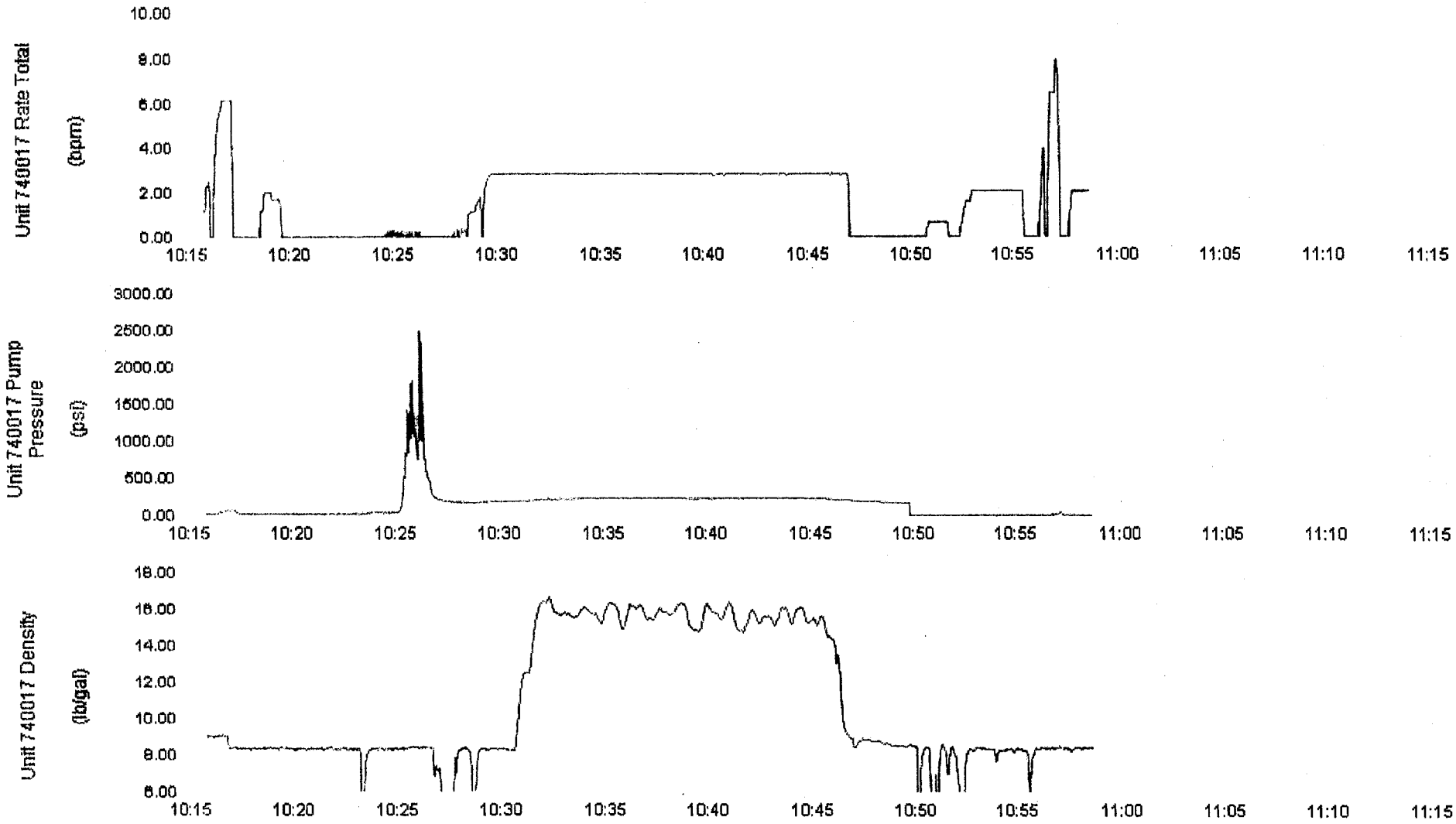
Employee	[illegible]		[illegible]		[illegible]			**Bin #**
Employee					[illegible]			**Bin #**
Unit #	[illegible]		[illegible]		[illegible]	[illegible]		MATERIAL
Arrive	[illegible]		[illegible]	[illegible]	[illegible]	[illegible]		TRANSFER
Depart	[illegible]		[illegible]		[illegible]			NUMBERS

Service Comments: [illegible]

*Detailed protocols for Sanjel's compatibility tests are available on request.

RECEIVED December 15, 2010

Client	Anadarko	Client Rep	Kirt Rasmussen	Supervisor	Doug Graves
Ticket No.	9151066	Well Name	Blackhawk A-5H	Unit No.	740017
Location	Sec 20 T13S R10E	Job Type	Cement Top Off	Service District	Riverton
Comments	H2O, 0-1-0 'G'+additives			Job Date	12/06/2010



Sanjel

PRE-JOB SAFETY MEETING - JOB SAFETY ANALYSIS (JSA)

Customer Name: [illegible] **Date:** [illegible] **Service Ticket No.:** [illegible]

Total People on Location: 6 **Location:** [illegible]

Emergency Responce Plan: (muster point, emergency procedures, location of emergency shower, eyewash station, fire extinguishers, first aid kits)

Muster Point - Lease Entrance

Emergency Equipment - [illegible]

How do we signal "STOP WORK"? Hand + Verbal

Safety Meeting Discussion: (Topics should include brief job scope, PPE, site specific hazards, environmental issues, people's responsibilities)

Job scope - Top off

PPE - [illegible]

Site hazards - Bell hole, Fed[?] [illegible] trucks

Environmental - No Spills

Responsibilities - [illegible]

Job Safety Analysis:

1. Break the job down into steps.	2. Identify the hazards associated with each step.	3. Develop ways to control the hazards.
Sequence of Basic Job Steps	Potential Hazards	Recommended Controls
Spot Trucks	Collisions	Use Spotter
Rig in	Pinch / Biological Agents	Good [illegible] / Elimination
Pressure Test	Pressure / Chemicals	Keep [illegible] / Engineering
Pump fluids	[illegible] / Electrical	Proper [illegible] / Administrative
Rig Out	Slips Trips / Fire/Explosion	[illegible] / PPE
	Mechanical	
	Pressure	
	Radiation	
	Temperature Extremes	

Attendees: (Print name and sign. If there are not enough lines use a second document from this book and enter the same Service Ticket No.)

[illegible handwritten signatures]

Customer Representative: [illegible]
Print Name
Signature

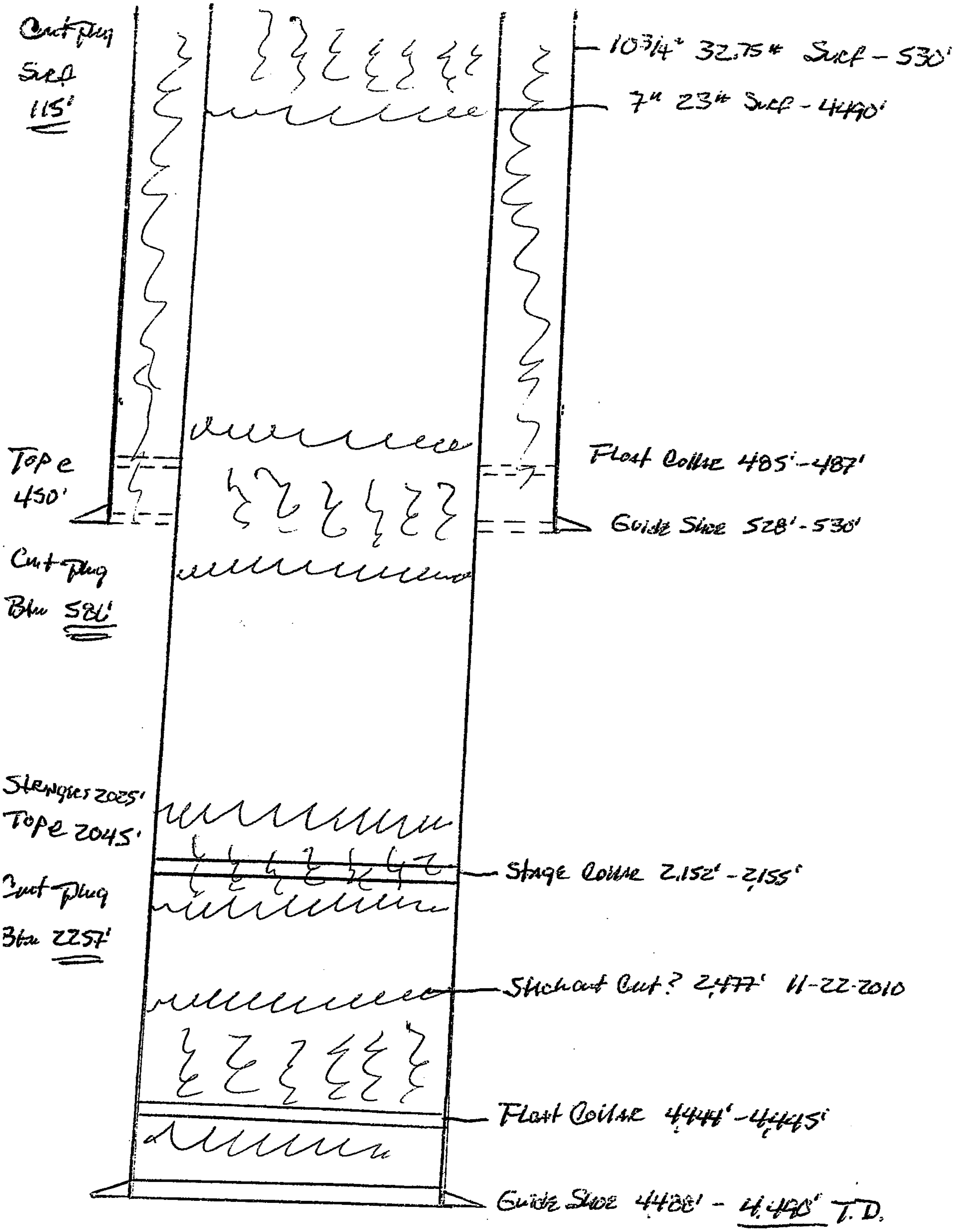
Sanjel Supervisor: [illegible]
Print Name
Signature [illegible]

U4027 REV.0, 05/08

RECEIVED December 15, 2010

Helper Yackhawk # A-5H   A. J# 2051182
NE/NE Sec 20 Twp 13S Rng 10E
GL 6397' KB 6423'

KB 26.0'



RECEIVED December 15, 2010

Sanjel (USA) Inc.
200, 505 - 2nd Street SW
Calgary, Alberta, T2P 1N8
Telephone: (403) 269-1420

Sanjel
Specialized Energy Service Company

SERVICE TICKET
9153669

This service ticket is not an invoice; pricing is subject to review and change without notice.

Client Name: Anadarko Petroleum	Well Name: Blackhawk A-5H		Job Date: 11/23/10
Address: 1099 18th Street	Location: Sec 20 T13S R10E		Service Point: Rangely WY
	Client Representative: Kirt Rasmussen		Pricing Area: A / State: UT
City: Denver / Province/State: CO / Postal/Zip Code: 80202	Job Type: P1A / State: UT / Country: Carbon		AFE/PO#: 2051182

District	Service, Equipment & Material Type	12	Code	Quantity	Unit Price	Amount
47	Base Charge to Single Pump Unit		1102	ONE	$4,700.00	$4,700 00
	Travel Charge Pump Truck		1380	230	$7.50	$1,725 00
	Bulk Cement Blending		1481	89	$3.30	$470 00
	Bulk Cement Delivery		1484	41	$2.65	$2,404 65
	SAM III Data Acquisition		1497	ONE	$1,015.00	$1,015 00
	Subsistence		1402	3	$355.00	$1,065 00
	Oil 10 G		3000	85	$27.00	$2,295 00
	CFR		3160	40	$10.20	$408 00
	CaCl2		3100	160	$1.80	$288 00
	Enviroboy		1492	ONE	$78.00	$78 00
	DF-3		3262	ONE	$141.00	$141 00
	Subtotal					$14,589 65
	Less 30% Discount					$10,212 75
47	Environmental Surcharge		1493	ONE	$50.00	$50 00
	Thank You					
	UWSGG6068					
	Kirt Rasmussen					

FIELD ESTIMATE $10,262 75

☐ Cementing - Prim.	☒ Cementing - Rem.		
☐ Coiled Tubing	☐ Nitrogen		
☐ Stimulation	☐ Fracturing		
☐ MPCTU	☐ Other		
Field	Sales 1	Sales 2	

This space is reserved for the Client Coding Stamp.

Comments

This signature confirms that I have read and comply with the terms and conditions as noted on the reverse of this document.

X

RECEIVED December 15, 2010

U4006 REV0 06/08

Stimulation and Remedial Cementing Service Report

Sanjel — A Specialized Energy Service Company

SERVICE TICKET

9153669

Client Name: Anadarko Petroleum	Well Name: Blackhawk A-5H	Job Date: 11/23/10
Client Representative: Kirk Rasmussen	Location: Sec 20 T13S R10E	Job Type: P+A

Well Data:

Description	Size (in)	Weight (lb/ft)	Grade	Max. Press. (psi)	True Measured Depth (TMD) Start (ft)	True Measured Depth (TMD) End (ft)	Capacity (bbls)
Tubing	2 7/8"	6.5			0	2237	.0057940
Casing	7"	23			0	2237	.0394
Perforations/OH							

Packers and Workover Tools	
Type	TMD (ft)
Production Packer	
Retrievable Packer	
Cement Retainer	
Bridge Plug	
Selective Injection Packer	

Formation Data:

Name	Type	Well Type	Temp. (°F)	Pressure (psi)	Height (ft) Gross	Height (ft) Net	Permeability (mD)	Porosity (%)

Fluid and Cement Data:

Wellbore Fluid: Type: Density: (lb/gal) Temp: (°F) Water: Bulk: Slurry:

#	Sacks	Volume (bbls)	Density (lb/gal)	Description	% - Additive	% - Additive	% - Additive	% - Additive
	40	8.2	15.8	G:1:06	.15% CFR	2% CaCl2		
	20	4.1	15.8	G:1:06	.5% CFR	2% CaCl2		

Fluid Compatibility Testing*:

Acid Titration: _____ (% HCl Equivalent)

Stability: Pass: ☐ Fail: ☐ N/A ☐

Iron Control (Live Acid): Pass: ☐ Fail: ☐ N/A ☐

Emulsion Break Time: Live: _____ min: ☐ Spent: _____ min.

Compatibility Tests:

Mesh Size: _____ Time at BHT: _____ min.

Live Acid: Pass: ☐ Fail: ☐ N/A ☐

Spent Acid: Pass: ☐ Fail: ☐ N/A ☐

Testing Witnessed by: (Oil Company Representative)	Signature:

Treatment Report:

Event #	Time	Pressure (psi) Tubular	Pressure (psi) Annular	Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
								Arrive on Location - Time Requested: 06:00
								Safety Meeting
								Pressure Test
			SEE	Additional DATA				
								SAM Card #: SAM 111 Start: Finish:

Personnel and Equipment:

Employee	Cody Bushnell		Justin Pedersen		Blaine McMahon					Bin # C9003556	
Employee	Jake Mack									Bin # Riverton	
Unit #	200525		740073		746047	746047					
Arrive	06:00		06:00		06:00						
Depart	15:00		15:00		15:00						

Service Comments: Job pumped As per customer Request

* Detailed protocols for Sanjel's compatibility tests are available on request.

U4013 REV.0, 05/08

Stimulation and Cementing
Additional Data

Sanjel
A Specialized Energy Service Company

SERVICE TICKET
9153669

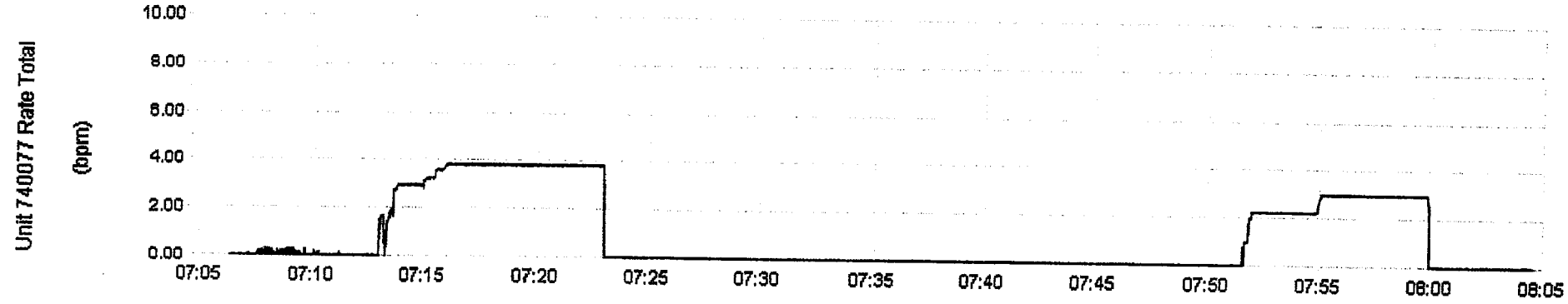
Treatment Report:

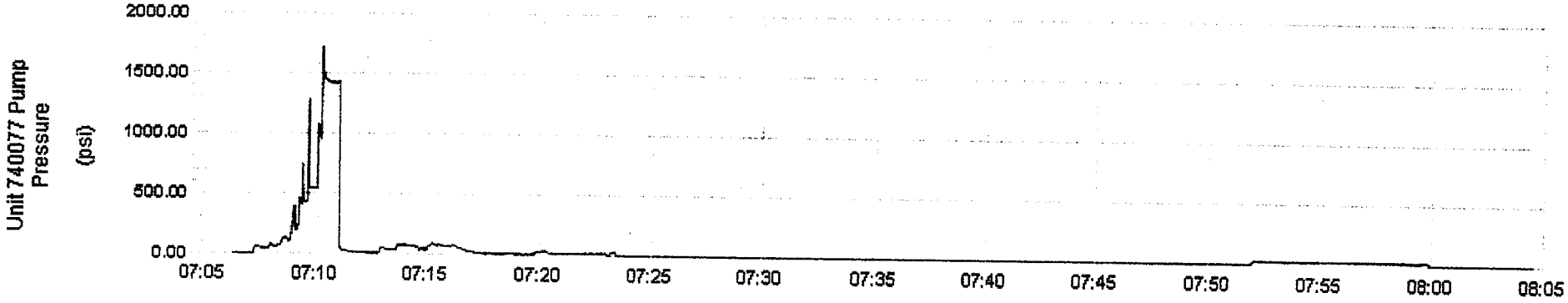
Event #	Time	Pressure (psi) Tubular	Pressure (psi) Annular	Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
1	06:00							Arrive On Location
2	06:30							Safety Meeting
3	07:10							Pressure Test Plug1
4	07:13	100		3	5	0		H_2O Ahead
5	07:15	50		4	8.2	5		0:1:0 G + Ads (2,054'-1,294')
6	07:20	90		4	11.7	13.2		H_2O Displace
7	07:23							Shut Down
8	07:52	50			15	24.9		Reverse Out
9	08:00							Shut Down Pull out Hole
10	13:30							Safety Meeting
11	14:04							Pressure Test Plug2
12	14:07	100		1.75	5	39.9		H_2O Ahead
13	14:09	100		3	4.1	44.9		0:1:0 G + Ads (480'-58')
14	14:12	90		2	2.6	49		H_2O Displace
15	14:13							Shut Down Pull out Hole
					51.6			

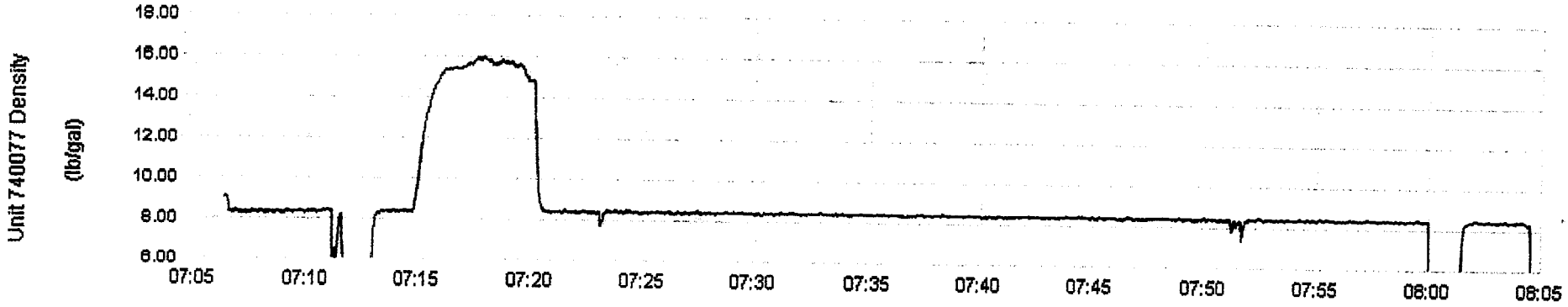
Sanjel
A Specialized Energy Service Company

Client	Anadarko Petroleum	Client Rep	Kirt Rasmussen	Supervisor	Cody Bushnell
Ticket No.	9153669	Well Name	Black Hawk A-5H	Unit No.	740077
Location	Sec20 T13S R10E	Job Type	Abandonment Plugs	Service District	Riverton Wy
Comments				Job Date	11/23/2010

Plug1



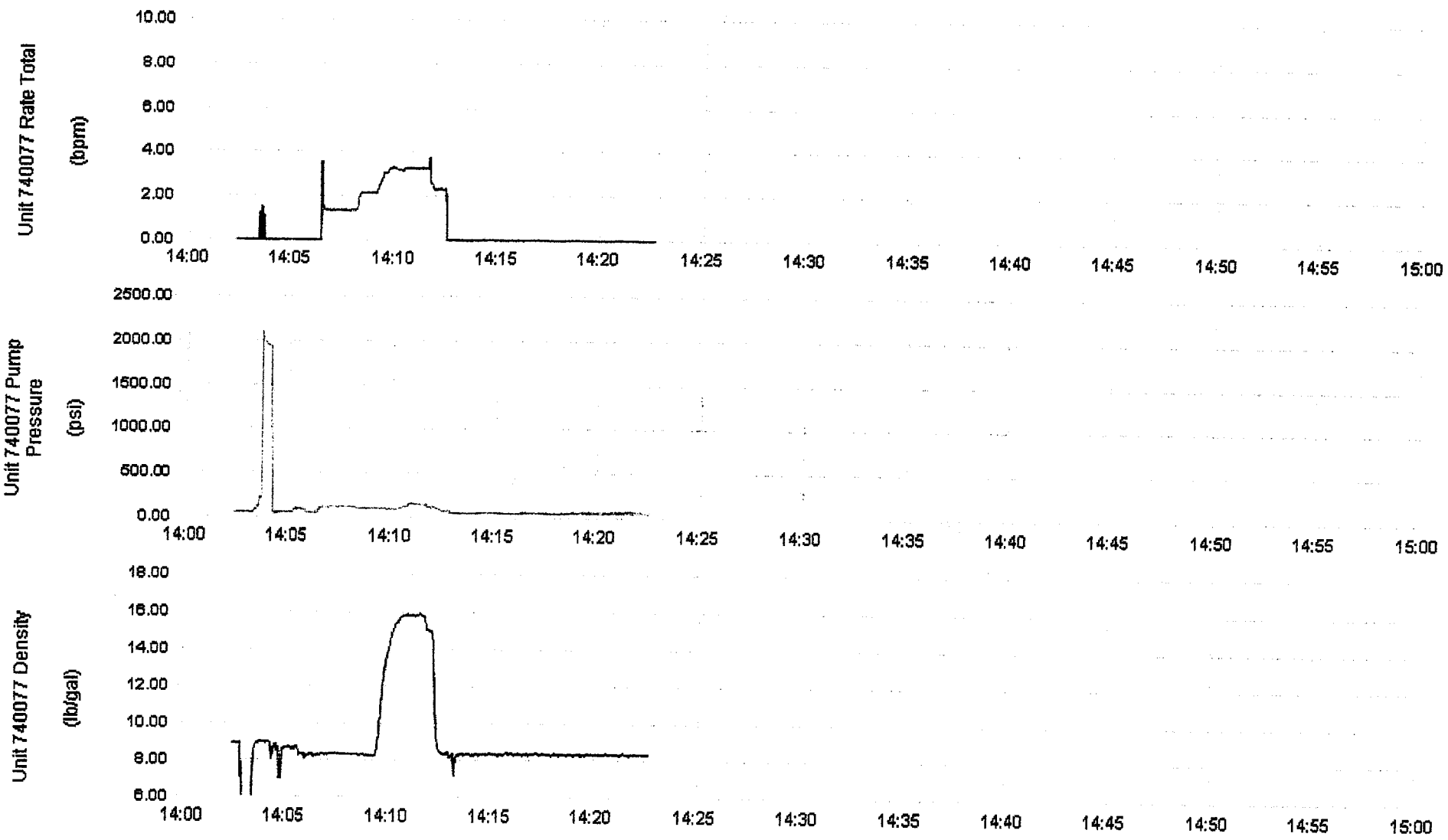




Plug 2

Sanjel
A Specialized Energy Service Company

Client	Anadarko Petroleum	Client Rep	Kirt Rasmussen	Supervisor	Cody Bushnell
Ticket No.	9153669	Well Name	Blackhawk A-5H	Unit No.	740077
Location	Sec20 T13S R10E	Job Type	Abandonment Plugs	Service District	Riverton Wy
Comments				Job Date	11/23/2010



Sanjel
A Specialized Energy Service Company

Pre-Job Safety Meeting - Job Safety Analysis (JSA)

Customer Name: Anadarko **Date:** 11/30/10 **Service Ticket No.:** 9[illegible]

Total People on Location: 12 **Location:** Sec 20 T13S R10E

Emergency Response Plan: (muster point, emergency procedures, location of emergency shower, eyewash station, fire extinguishers, first aid kits)
Meet At Location Entrance, Take A head count
Use Sanjel pick-up to get to nearest medical

How do we signal "STOP WORK"? Verbal shout out, Hand signal across throat

Safety Meeting Discussion: (Topics should include brief job scope, PPE, site specific hazards, environmental issues, people's responsibilities)
Know your Responsibility And Keep your Eyes on Task
Keep People Away From Suction Trucking Lines
Wear Proper PPE Around cement Dust & slurry

Job Safety Analysis:

1. Break the job down into steps.	2. Identify the hazards associated with each step.	3. Develop ways to control the hazards.
Sequence of Basic Job Steps	Potential Hazards	Recommended Controls
Spot Trucks	Other Equipment on location	Slow Down
	Guide Lines on Rig	Use 2 spotters
	Other People	Look Twice
Rig In	Pinch points	Gloves
	Hammer Swings	Line of fire
	Slips + Trips	Watch Footing
Pump Job	Pressure Testing	Keep people clear
	Cement Dust + Slurry	Respirators / PPE
	Climbing on + off pump	3 points contact
Rig out	Heavy Lifting	Team Lifting
	Falling Object off Truck	Use Caution

Attendees: (Print name and sign. If there is not enough lines use a second document from this book and enter the same Service Ticket No.)

Customer Representative:

Print Name _____ Signature _____

Sanjel Supervisor:

Print Name Cody Buchwell Signature Cody Buchwell

RECEIVED December 15, 2010

Sanjel (USA) Inc.
200, 505 - 2nd Street SW
Calgary, Alberta, T2P 1N8
Telephone: (403) 269-1420

Sanjel
A Specialized Energy Services Company

SERVICE TICKET
9153670

This service ticket is not an invoice; pricing is subject to review and change without notice.

Client Name: Anadarko Petroleum	Well Name: Blackhawk A-5H		Job Date: 11/24/10
Address: 1099 18th Street	Location: Sec 20 T13S R10E		Service Point: Riverton WY #47
	Client Representative: Kirt Rasmussen		Pricing Area: A / State: UT
City: Denver / Province/State: CO / Postal/Zip Code: 80202	Job Type: P&A	State: UT / Country: Carbon	AFE/PO#: 2051182

District	Service, Equipment & Material Type	12 Code	Quantity	Unit Price	Amount	
47	~~Base Charge to~~ Single Pump Unit	1392	8	$450.00	$3,600	00
↑	~~Travel Charge~~ Bulk Unit	1398	8	$285.00	$2,280	00
	Subsistence	1402	3	$355.00	$1,065	00
	Envirobag	1492	ONE	$78.00	$78	00
	DF-3	3262	ONE	$141.00	$141	00
	Sub Total	47			$7,164	00
↓	Less 30% Discount				$5,014	80
47	Environmental Surcharge	1493	ONE	$50.00	$50	00
					$5064	80

USGR SGG Code
Kirt Rasmussen

FIELD ESTIMATE $5,064 80

- [ ] Cementing - Prim.
- [x] Cementing - Rem.
- [ ] Coiled Tubing
- [ ] Nitrogen
- [ ] Stimulation
- [ ] Fracturing
- [ ] MPCTU
- [ ] Other

Field	Sales 1	Sales 2

This space is reserved for the Client Coding Stamp.

Comments

This signature confirms that I have read and comply with the terms and conditions as noted on the reverse of this document.

X [signature]

RECEIVED December 15, 2010

U4006 REV.0, 06/08

Stimulation and Remedial Cementing Service Report

Sanjel — A Specialized Energy Service Company

SERVICE TICKET # 1556702

Client Name: Anadarko Petroleum	Well Name: Blackhawk A-5H	Job Date: 11/24/10	
Client Representative: Kirt Rasmussen	Location: Sec 20 T1S R1WE	Job Type: P+A	

Well Data:

Description	Size (in)	Weight (lb/ft)	Grade	Max. Press. (psi)	TMD Start (ft)	TMD End (ft)	Capacity (bbls)	Packers and Workover Tools Type	TMD (ft)
Tubing	2 7/8'	6.5			0	46	.00579	Production Packer	
								Retrievable Packer	
Casing	7"	23			0	1150	.0394	Cement Retainer	
								Bridge Plug	
Perforations/OH								Selective Injection Packer	

Formation Data:

Name	Type	Well Type	Temp. (°F)	Pressure (psi)	Height (ft) Gross	Net	Permeability (mD)	Porosity (%)

Fluid and Cement Data:

Wellbore Fluid: Type: Density: (lb/gal) Temp: (°F) Water: Bulk: Slurry:

#	Sacks	Volume (bbls)	Density (lb/gal)	Description	% - Additive	% - Additive	% - Additive	% - Additive
	25	5	15.8	0:1:0 G	.5% CFR	2% CaCl2		

Fluid Compatibility Testing*:

Acid Titration: ______ (% HCl Equivalent)

Stability: Pass: ☐ Fail: ☐ N/A ☐

Iron Control (Live Acid): Pass: ☐ Fail: ☐ N/A ☐

Emulsion Break Time: Live: ______ min: ☐ Spent: ______ min.

Compatibility Tests:

Mesh Size: ______ Time at BHT: ______ min.

Live Acid: Pass: ☐ Fail: ☐ N/A ☐

Spent Acid: Pass: ☐ Fail: ☐ N/A ☐

Testing Witnessed by: (Oil Company Representative) Signature:

Treatment Report:

Event #	Time	Pressure (psi) Tubular	Annular	Rate (bbls/min)	Stage Volume (bbls)	Total Volume (bbls)	Injected in Formation (bbls)	Remarks
1	06:30							Arrive on Location - Time Requested: 06:30
2	07:00							Safety Meeting
3	08:53							Pressure Test
4	09:04	100		1.75	3	0		Fresh H2O Ahead
5	09:06	100		2	5	3		0:1:0 G + Add
6	09:09					8		Shut Down
								SAM Card #: SAM 111 Start: Finish:

Personnel and Equipment:

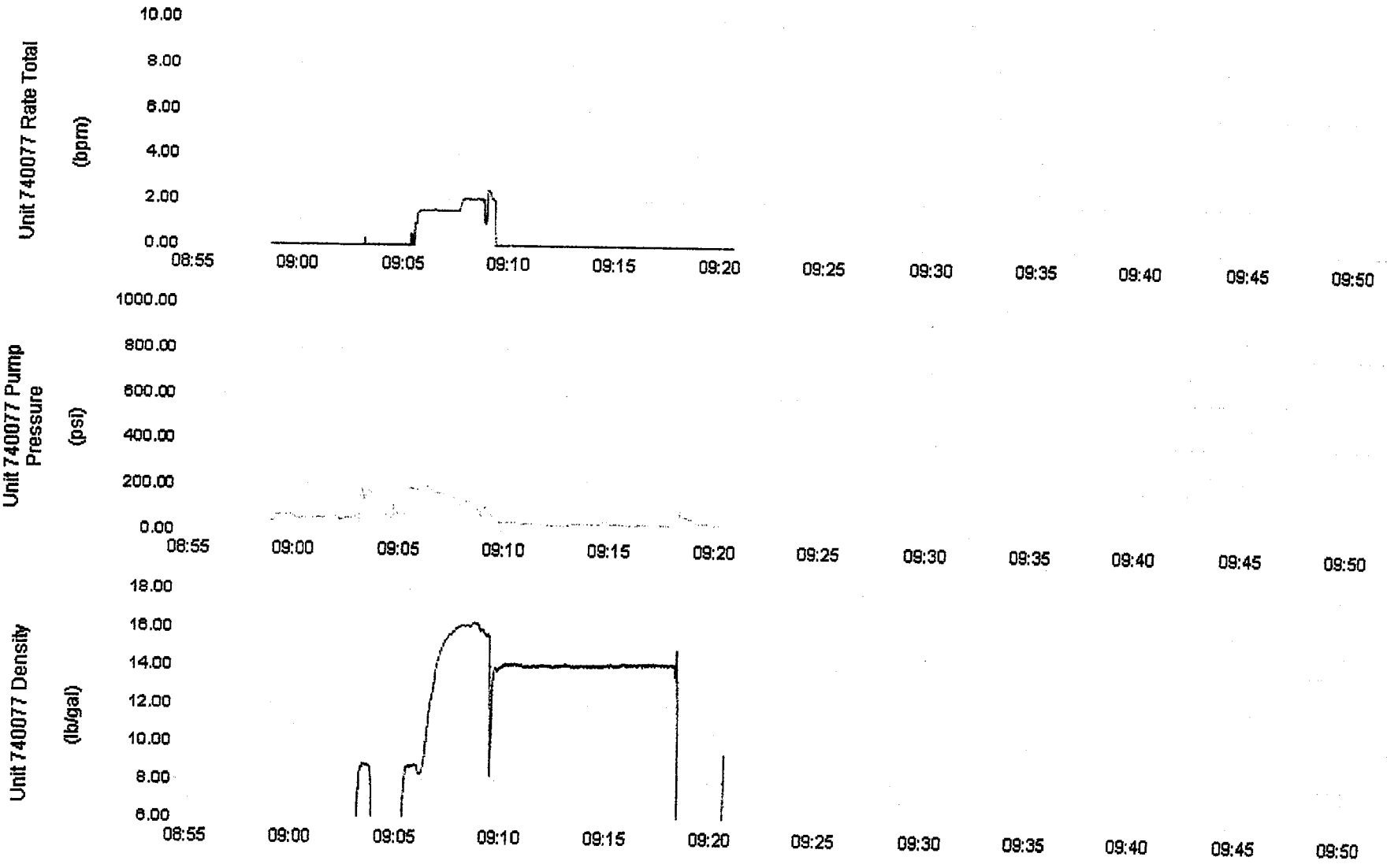
Employee	Cody Bushnell	Justin Pederson	Granville McMurtr.		Bin # Riverton WY	
Employee	Jason Plock				Bin #	
Unit #	200525	740077	746047	446047	C9003556	
Arrive	06:30	06:30	06:30			
Depart	10:30	10:30	10:30			

Service Comments: Job pumped As per Customer Request

* Detailed protocols for Sanjel's compatibility tests are available on request.

U4013 REV.0, 05/08

Client	Anadarko Petroleum	Client Rep	Kirt Rasmussen	Supervisor	Cody Bushnell
Ticket No.	9153670	Well Name	Blackhawk A-5H	Unit No.	740077
Location	Sec20 T13S R10E	Job Type	Abandonment Plugs	Service District	Riverton Wy
Comments				Job Date	11/24/2010



Division of Oil, Gas and Mining

OPERATOR CHANGE WORKSHEET (for state use only)

ROUTING
CDW

X - Change of Operator (Well Sold) Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **4/1/2013**

FROM: (Old Operator):	**TO:** (New Operator):
N0035-Anadarko Petroleum Corporation	N3940- Anadarko E&P Onshore LLC
PO Box 173779	PO Box 173779
Denver, CO, 80214	Denver, CO 802014
Phone: 1 (720) 929-6000	Phone: 1 (720) 929-6000

CA No. **Unit:**

WELL NAME	SEC	TWN	RNG	API NO	ENTITY NO	LEASE TYPE	WELL TYPE	WELL STATUS
See Attached List								

OPERATOR CHANGES DOCUMENTATION

Enter date after each listed item is completed

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 4/9/2013
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 4/9/2013
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 4/10/2013
4a. Is the new operator registered in the State of Utah: _____ Business Number: 593715-0161
5a. (R649-9-2)Waste Management Plan has been received on: Yes
5b. Inspections of LA PA state/fee well sites complete on: 4/10/2013
5c. Reports current for Production/Disposition & Sundries on: 4/10/2013
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 4/2/2013 BIA N/A
7. **Federal and Indian Units:**
   The BLM or BIA has approved the successor of unit operator for wells listed on: N/A
8. **Federal and Indian Communization Agreements ("CA"):**
   The BLM or BIA has approved the operator for all wells listed within a CA on: N/A
9. **Underground Injection Control ("UIC")** Division has approved UIC Form 5 Transfer of Authority to **Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: 4/10/2013

DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 4/11/2013
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 4/11/2013
3. Bond information entered in RBDMS on: 4/10/2013
4. Fee/State wells attached to bond in RBDMS on: 4/11/2013
5. Injection Projects to new operator in RBDMS on: 4/11/2013
6. Receipt of Acceptance of Drilling Procedures for APD/New on: N/A

BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: WYB000291
2. Indian well(s) covered by Bond Number: N/A
3a. (R649-3-1) The **NEW** operator of any state/fee well(s) listed covered by Bond Number 22013542
3b. The **FORMER** operator has requested a release of liability from their bond on: N/A

LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **NEW** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 4/11/2013

COMMENTS:

FORM 9

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: See Wells

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME:

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ OTHER CBM Wells

8. WELL NAME and NUMBER:

2. NAME OF OPERATOR: Anadarko Petroleum Corporation

9. API NUMBER: See Wells

3. ADDRESS OF OPERATOR: P.O. Box 173779 CITY Denver STATE CO ZIP 80217

PHONE NUMBER: (720) 929-6000

10. FIELD AND POOL, OR WILDCAT:

4. LOCATION OF WELL

FOOTAGES AT SURFACE:

COUNTY:

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: 4/8/2013	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☑ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER:
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The operator is requesting authorization to transfer the wells from Anadarko Petroleum Corporation and Anadarko Production Company to Anadarko E&P Onshore, LLC. Please see the attached list of 181 wells that are currently filed under Anadarko Petroleum Corporation and Anadarko Production Company. The state/fee wells will be under bond number 22013542, and the federal wells will be under bond number WYB000291.

RECEIVED

Effective 4/1/13

APR 09 2013

Please contact the undersigned if there are any questions.

DIV. OF OIL, GAS & MINING

Jaime Scharnowske
Regulatory Analyst

Anadarko Petroleum Corporation N0035
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

Jaime Scharnowske
Regulatory Analyst

Anadarko E&P Onshore, LLC N3940
P.O. Box 173779
Denver, CO 80214
(720) 929-6000

NAME (PLEASE PRINT) Jaime Scharnowske TITLE Regulatory Analyst

SIGNATURE Jaime Scharnowske DATE 4/8/2013

(This space for State use only)

APPROVED

APR 11 2013

DIV. OIL GAS & MINING

Rachel Medina

(5/2000) (See Instructions on Reverse Side)

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective 1 April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER ST SWD 1	03	140S	100E	4300730361	12258	State	WD	A
FED F-2 SWD	08	140S	100E	4300730555	12557	Federal	WD	A
CLAWSON SPRING ST SWD 4	13	160S	080E	4301530477	12979	State	WD	A
CLAWSON SPRING ST SWD 1	36	150S	080E	4300730721	12832	State	WD	I
HELPER FED B-1	33	130S	100E	4300730189	11537	Federal	GW	P
HELPER FED A-1	23	130S	100E	4300730190	11517	Federal	GW	P
HELPER FED A-3	22	130S	100E	4300730213	11700	Federal	GW	P
HELPER FED C-1	22	130S	100E	4300730214	11702	Federal	GW	P
HELPER FED B-5	27	130S	100E	4300730215	11701	Federal	GW	P
HELPER FED A-2	22	130S	100E	4300730216	11699	Federal	GW	P
HELPER FED D-1	26	130S	100E	4300730286	12061	Federal	GW	P
BIRCH A-1	05	140S	100E	4300730348	12120	Fee	GW	P
HELPER ST A-1	03	140S	100E	4300730349	12122	State	GW	P
HELPER ST D-7	04	140S	100E	4300730350	12121	State	GW	P
CHUBBUCK A-1	31	130S	100E	4300730352	12397	Fee	GW	P
VEA A-1	32	130S	100E	4300730353	12381	Fee	GW	P
VEA A-2	32	130S	100E	4300730354	12483	Fee	GW	P
VEA A-3	32	130S	100E	4300730355	12398	Fee	GW	P
VEA A-4	32	130S	100E	4300730356	12482	Fee	GW	P
HELPER ST A-8	02	140S	100E	4300730357	12257	State	GW	P
HELPER ST A-3	02	140S	100E	4300730358	12254	State	GW	P
HELPER ST A-4	02	140S	100E	4300730359	12255	State	GW	P
HELPER ST A-7	02	140S	100E	4300730360	12256	State	GW	P
HELPER ST A-2	03	140S	100E	4300730362	12232	State	GW	P
HELPER ST A-5	03	140S	100E	4300730363	12231	State	GW	P
HELPER ST A-6	03	140S	100E	4300730364	12233	State	GW	P
HELPER ST D-4	04	140S	100E	4300730365	12228	State	GW	P
HELPER ST D-3	05	140S	100E	4300730366	12184	State	GW	P
HELPER ST D-5	04	140S	100E	4300730367	12226	State	GW	P
HELPER ST D-8	04	140S	100E	4300730368	12229	State	GW	P
HELPER ST D-2	05	140S	100E	4300730369	12481	State	GW	P
HELPER ST D-6	05	140S	100E	4300730370	12234	State	GW	P
HELPER ST D-1	06	140S	100E	4300730371	12399	State	GW	P
BIRCH A-2	08	140S	100E	4300730372	12189	Fee	GW	P
HELPER ST A-9	10	140S	100E	4300730373	12230	State	GW	P
HELPER ST B-1	09	140S	100E	4300730376	12227	State	GW	P
HELPER FED F-3	08	140S	100E	4300730378	12252	Federal	GW	P
HELPER FED F-4	09	140S	100E	4300730379	12253	Federal	GW	P
HELPER ST A-10	10	140S	100E	4300730433	12488	State	GW	P
HELPER ST A-11	11	140S	100E	4300730434	12487	State	GW	P
HELPER ST A-12	10	140S	100E	4300730435	12486	State	GW	P
HELPER ST A-13	10	140S	100E	4300730436	12485	State	GW	P
HELPER ST B-2	09	140S	100E	4300730437	12484	State	GW	P
HELPER FED E-7	19	130S	100E	4300730508	13623	Federal	GW	P
HELPER FED B-2	33	130S	100E	4300730530	12619	Federal	GW	P
HELPER FED B-3	33	130S	100E	4300730531	12622	Federal	GW	P
HELPER FED B-4	33	130S	100E	4300730532	12623	Federal	GW	P
HELPER FED B-6	27	130S	100E	4300730533	12644	Federal	GW	P
HELPER FED B-7	27	130S	100E	4300730534	12645	Federal	GW	P
HELPER FED B-8	27	130S	100E	4300730535	12631	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED B-9	34	130S	100E	4300730536	12646	Federal	GW	P
HELPER FED B-10	34	130S	100E	4300730537	12626	Federal	GW	P
HELPER FED B-11	34	130S	100E	4300730538	12628	Federal	GW	P
HELPER FED B-12	34	130S	100E	4300730539	12627	Federal	GW	P
HELPER FED B-13	28	130S	100E	4300730540	12621	Federal	GW	P
HELPER FED B-14	28	130S	100E	4300730541	12620	Federal	GW	P
HELPER FED D-2	26	130S	100E	4300730542	12650	Federal	GW	P
HELPER FED D-3	26	130S	100E	4300730543	12634	Federal	GW	P
HELPER FED D-4	35	130S	100E	4300730544	12625	Federal	GW	P
HELPER FED D-5	35	130S	100E	4300730545	12637	Federal	GW	P
HELPER FED D-6	35	130S	100E	4300730546	12635	Federal	GW	P
HELPER FED E-1	29	130S	100E	4300730547	13246	Federal	GW	P
HELPER FED E-2	29	130S	100E	4300730548	12636	Federal	GW	P
HELPER FED H-1	01	140S	100E	4300730549	12653	Federal	GW	P
HELPER FED H-2	01	140S	100E	4300730550	12647	Federal	GW	P
OLIVETO FED A-2	08	140S	100E	4300730556	12630	Federal	GW	P
HELPER FED F-1	08	140S	100E	4300730557	12629	Federal	GW	P
SMITH FED A-1	09	140S	100E	4300730558	13004	Federal	GW	P
SE INVESTMENTS A-1	06	140S	100E	4300730570	12624	Fee	GW	P
HELPER ST A-14	11	140S	100E	4300730571	12612	State	GW	P
HELPER ST A-15	11	140S	100E	4300730572	12613	State	GW	P
HELPER ST E-1	36	130S	100E	4300730573	12615	State	GW	P
HELPER ST E-2	36	130S	100E	4300730574	12614	State	GW	P
HARMOND A-1	07	140S	100E	4300730586	12616	Fee	GW	P
HELPER ST E-3	36	130S	100E	4300730592	12868	State	GW	P
HELPER FED A-6	23	130S	100E	4300730593	12649	Federal	GW	P
HELPER FED D-7	26	130S	100E	4300730594	12651	Federal	GW	P
HELPER FED D-8	35	130S	100E	4300730595	12652	Federal	GW	P
CLAWSON SPRING ST A-1	36	150S	080E	4300730597	12618	State	GW	P
HELPER ST E-4	36	130S	100E	4300730598	12825	State	GW	P
HELPER ST A-16	11	140S	100E	4300730603	12638	State	GW	P
CHUBBUCK A-2	06	140S	100E	4300730604	12648	Fee	GW	P
CLAWSON SPRING ST A-2	36	150S	080E	4300730635	12856	State	GW	P
CLAWSON SPRING ST A-3	36	150S	080E	4300730636	13001	State	GW	P
CLAWSON SPRING ST A-4	36	150S	080E	4300730637	12844	State	GW	P
CLAWSON SPRING ST D-5	31	150S	090E	4300730642	12852	State	GW	P
CLAWSON SPRING ST D-6	31	150S	090E	4300730643	12847	State	GW	P
CLAWSON SPRING ST D-7	31	150S	090E	4300730644	12849	State	GW	P
HELPER FED A-5	23	130S	100E	4300730677	13010	Federal	GW	P
HELPER FED A-7	22	130S	100E	4300730678	13346	Federal	GW	P
HELPER FED B-15	28	130S	100E	4300730679	13015	Federal	GW	P
HELPER FED B-16	28	130S	100E	4300730680	13203	Federal	GW	P
HELPER FED C-2	24	130S	100E	4300730681	13016	Federal	GW	P
HELPER FED C-4	24	130S	100E	4300730682	13012	Federal	GW	P
HELPER FED C-7	21	130S	100E	4300730684	13204	Federal	GW	P
HELPER FED D-9	25	130S	100E	4300730685	13245	Federal	GW	P
HELPER FED D-10	25	130S	100E	4300730686	12993	Federal	GW	P
HELPER FED D-11	25	130S	100E	4300730687	12992	Federal	GW	P
HELPER FED D-12	25	130S	100E	4300730688	13005	Federal	GW	P
HELPER FED E-4	29	130S	100E	4300730689	13229	Federal	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
HELPER FED A-4	23	130S	100E	4300730692	13009	Federal	GW	P
HELPER FED C-5	24	130S	100E	4300730693	13013	Federal	GW	P
HELPER FED G-1	30	130S	110E	4300730694	13006	Federal	GW	P
HELPER FED G-2	30	130S	110E	4300730695	13007	Federal	GW	P
HELPER FED G-3	31	130S	110E	4300730696	13002	Federal	GW	P
HELPER FED G-4	31	130S	110E	4300730697	13003	Federal	GW	P
HELPER FED H-3	01	140S	100E	4300730698	12831	Federal	GW	P
HELPER FED H-4	01	140S	100E	4300730699	12833	Federal	GW	P
CLAWSON SPRING ST D-8	31	150S	090E	4300730701	12851	State	GW	P
HELPER FED C-3	24	130S	100E	4300730702	13011	Federal	GW	P
CLAWSON SPRING ST J-1	35	150S	080E	4300730726	13299	Fee	GW	P
PIERUCCI 1	35	150S	080E	4300730727	13325	Fee	GW	P
POTTER ETAL 1	35	150S	080E	4300730728	12958	Fee	GW	P
POTTER ETAL 2	35	150S	080E	4300730737	12959	Fee	GW	P
HELPER FED G-5	30	130S	110E	4300730770	13655	Federal	GW	P
HELPER FED G-6	30	130S	110E	4300730771	13656	Federal	GW	P
HELPER FED G-7	31	130S	110E	4300730772	13657	Federal	GW	P
HELPER FED G-8	31	130S	110E	4300730773	13658	Federal	GW	P
GOODALL A-1	06	140S	110E	4300730774	13348	Fee	GW	P
HELPER FED E-8	19	130S	100E	4300730776	13624	Federal	GW	P
HAUSKNECHT A-1	21	130S	100E	4300730781	13347	Fee	GW	P
HELPER FED E-9	19	130S	100E	4300730868	13628	Federal	GW	P
HELPER FED E-5	20	130S	100E	4300730869	13625	Federal	GW	P
HELPER FED E-6	20	130S	100E	4300730870	13631	Federal	GW	P
HELPER FED E-10	30	130S	100E	4300730871	13629	Federal	GW	P
SACCOMANNO A-1	30	130S	100E	4300730872	13622	Fee	GW	P
HELPER FED E-11	30	130S	100E	4300730873	13630	Federal	GW	P
BLACKHAWK A-2	29	130S	100E	4300730886	13783	Fee	GW	P
BLACKHAWK A-3	20	130S	100E	4300730914	13794	Fee	GW	P
BLACKHAWK A-4	21	130S	100E	4300730915	13795	Fee	GW	P
BLACKHAWK A-1X	20	130S	100E	4300730923	13798	Fee	GW	P
HELPER STATE 12-3	03	140S	100E	4300750070	17824	State	GW	P
HELPER STATE 32-3	03	140S	100E	4300750071	17827	State	GW	P
HELPER STATE 32-36	36	130S	100E	4300750072	17825	State	GW	P
VEA 32-32	32	130S	100E	4300750075	17826	Fee	GW	P
CLAWSON SPRING ST E-7	07	160S	090E	4301530392	12960	State	GW	P
CLAWSON SPRING ST E-8	07	160S	090E	4301530394	12964	State	GW	P
CLAWSON SPRING ST E-3	06	160S	090E	4301530403	12965	State	GW	P
CLAWSON SPRING ST E-1	06	160S	090E	4301530404	12966	State	GW	P
CLAWSON SPRING ST E-2	06	160S	090E	4301530405	12961	State	GW	P
CLAWSON SPRING ST E-4	06	160S	090E	4301530406	12962	State	GW	P
CLAWSON SPRING ST C-1	12	160S	080E	4301530410	12617	State	GW	P
CLAWSON SPRING ST B-1	01	160S	080E	4301530427	12845	State	GW	P
CLAWSON SPRING ST B-2	01	160S	080E	4301530428	12846	State	GW	P
CLAWSON SPRING ST B-3	01	160S	080E	4301530429	12848	State	GW	P
CLAWSON SPRING ST B-4	01	160S	080E	4301530430	12854	State	GW	P
CLAWSON SPRING ST B-5	12	160S	080E	4301530431	12963	State	GW	P
CLAWSON SPRING ST B-8	11	160S	080E	4301530432	12863	State	GW	P
CLAWSON SPRING ST B-9	11	160S	080E	4301530433	12864	State	GW	P
CLAWSON SPRING ST C-2	12	160S	080E	4301530434	12850	State	GW	P

Anadarko Petroleum Corporation (N0035) to Anadarko E&P Onshore, LLC (N3940)
Effective1-April-2013

Well Name	Sec	Twnshp	Range	API	Entity No.	Lease Type	Well Type	Well status
CLAWSON SPRING ST C-4	14	160S	080E	4301530435	13199	State	GW	P
CLAWSON SPRING ST B-7	11	160S	080E	4301530460	12967	State	GW	P
CLAWSON SPRING ST C-6	14	160S	080E	4301530461	13355	State	GW	P
CLAWSON SPRING ST C-3	12	160S	080E	4301530463	12968	State	GW	P
CLAWSON SPRING ST B-6	11	160S	080E	4301530465	12969	State	GW	P
CLAWSON SPRING ST H-1	13	160S	080E	4301530466	13323	State	GW	P
CLAWSON SPRING ST H-2	13	160S	080E	4301530467	12955	State	GW	P
CLAWSON SPRING ST IPA-1	10	160S	080E	4301530468	12956	Fee	GW	P
CLAWSON SPRING ST IPA-2	15	160S	080E	4301530469	13200	Fee	GW	P
CLAWSON SPRING ST E-5	07	160S	090E	4301530470	12971	State	GW	P
CLAWSON SPRING ST G-1	02	160S	080E	4301530471	13014	State	GW	P
CLAWSON SPRING ST F-2	03	160S	080E	4301530472	13282	State	GW	P
CLAWSON SPRING ST F-1	03	160S	080E	4301530473	13278	State	GW	P
CLAWSON SPRING ST E-6	07	160S	090E	4301530474	13052	State	GW	P
CLAWSON SPRING ST G-2	02	160S	080E	4301530475	12957	State	GW	P
CLAWSON SPRING ST M-1	02	160S	080E	4301530488	13201	State	GW	P
CLAWSON SPRING ST K-1	02	160S	080E	4301530489	13202	State	GW	P
SHIMMIN TRUST 3	14	120S	100E	4300730119	11096	Fee	GW	PA
SHIMMIN TRUST 1	11	120S	100E	4300730120	11096	Fee	GW	PA
SHIMMIN TRUST 2	14	120S	100E	4300730121	11096	Fee	GW	PA
SHIMMIN TRUST 4	11	120S	100E	4300730123	11096	Fee	GW	PA
ST 9-16	16	120S	100E	4300730132	11402	State	GW	PA
ST 2-16	16	120S	100E	4300730133	11399	State	GW	PA
MATTS SUMMIT ST A-1	14	120S	090E	4300730141	11273	State	GW	PA
SLEMAKER A-1	05	120S	120E	4300730158	11441	Fee	GW	PA
JENSEN 16-10	10	120S	100E	4300730161	11403	Fee	GW	PA
JENSEN 7-15	15	120S	100E	4300730165	11407	Fee	GW	PA
SHIMMIN TRUST 12-12	12	120S	100E	4300730168	11420	Fee	GW	PA
JENSEN 11-15	15	120S	100E	4300730175	11425	Fee	GW	PA
BRYNER A-1	11	120S	120E	4300730188	11503	Fee	GW	PA
BRYNER A-1X (RIG SKID)	11	120S	120E	4300730209	11503	Fee	GW	PA
BLACKHAWK A-1	20	130S	100E	4300730885	13798	Fee	D	PA
BLACKHAWK A-5H	20	130S	100E	4300731402	17029	Fee	D	PA
CLAWSON SPRING ST SWD 3	06	160S	090E	4301530476	12978	State	D	PA
HELPER FED C-6	21	130S	100E	4300730683	13008	Federal	GW	S
UTAH 10-415	10	160S	080E	4301530391	12632	State	GW	TA

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
1	4300730189	HELPER FED B-1	NESW	33	13S	10E	Federal	USA UTU 71392	Producing
2	4300730190	HELPER FED A-1	C-SW	23	13S	10E	Federal	USA UTU 58434	Producing
3	4300730213	HELPER FED A-3	SESE	22	13S	10E	Federal	USA UTU 58434	Producing
4	4300730214	HELPER FED C-1	SENE	22	13S	10E	Federal	USA UTU 71391	Producing
5	4300730215	HELPER FED B-5	NENE	27	13S	10E	Federal	USA UTU 71392	Producing
6	4300730216	HELPER FED A-2	NESW	22	13S	10E	Federal	USA UTU 58434	Producing
7	4300730286	HELPER FED D-1	SWNE	26	13S	10E	Federal	USA UTU 68315	Producing
8	4300730378	HELPER FED F-3	NENE	8	14S	10E	Federal	USA UTU 65762	Producing
9	4300730379	HELPER FED F-4	NWNW	9	14S	10E	Federal	USA UTU 65762	Producing
10	4300730508	HELPER FED E-7	SESE	19	13S	10E	Federal	USA UTU 77980	Producing
11	4300730530	HELPER FED B-2	SENW	33	13S	10E	Federal	USA UTU 71392	Producing
12	4300730531	HELPER FED B-3	NESE	33	13S	10E	Federal	USA UTU 71392	Producing
13	4300730532	HELPER FED B-4	NENE	33	13S	10E	Federal	USA UTU 71392	Producing
14	4300730533	HELPER FED B-6	NENW	27	13S	10E	Federal	USA UTU 71392	Producing
15	4300730534	HELPER FED B-7	NESW	27	13S	10E	Federal	USA UTU 71392	Producing
16	4300730535	HELPER FED B-8	SESE	27	13S	10E	Federal	USA UTU 71392	Producing
17	4300730536	HELPER FED B-9	SENW	34	13S	10E	Federal	USA UTU 71392	Producing
18	4300730537	HELPER FED B-10	NWNE	34	13S	10E	Federal	USA UTU 71392	Producing
19	4300730538	HELPER FED B-11	SESW	34	13S	10E	Federal	USA UTU 71392	Producing
20	4300730539	HELPER FED B-12	NESE	34	13S	10E	Federal	USA UTU 71392	Producing
21	4300730540	HELPER FED B-13	SWSE	28	13S	10E	Federal	USA UTU 71392	Producing
22	4300730541	HELPER FED B-14	SWSW	28	13S	10E	Federal	USA UTU 71392	Producing
23	4300730542	HELPER FED D-2	SWNW	26	13S	10E	Federal	USA UTU 68315	Producing
24	4300730543	HELPER FED D-3	SESW	26	13S	10E	Federal	USA UTU 68315	Producing
25	4300730544	HELPER FED D-4	NWNW	35	13S	10E	Federal	USA UTU 68315	Producing
26	4300730545	HELPER FED D-5	SESW	35	13S	10E	Federal	USA UTU 68315	Producing
27	4300730546	HELPER FED D-6	NWSE	35	13S	10E	Federal	USA UTU 68315	Producing
28	4300730547	HELPER FED E-1	NESE	29	13S	10E	Federal	USA UTU 71675	Producing
29	4300730548	HELPER FED E-2	SESW	29	13S	10E	Federal	USA UTU 71675	Producing
30	4300730549	HELPER FED H-1	NENW	1	14S	10E	Federal	USA UTU 72352	Producing
31	4300730550	HELPER FED H-2	SESW	1	14S	10E	Federal	USA UTU 72352	Producing
32	4300730556	OLIVETO FED A-2	NESW	8	14S	10E	Federal	USA UTU 65762	Producing
33	4300730557	HELPER FED F-1	SESE	8	14S	10E	Federal	USA UTU 65762	Producing
34	4300730558	SMITH FED A-1	NWSW	9	14S	10E	Federal	USA UTU 65762	Producing
35	4300730593	HELPER FED A-6	SESE	23	13S	10E	Federal	USA UTU 58434	Producing
36	4300730594	HELPER FED D-7	C-SE	26	13S	10E	Federal	USA UTU 68315	Producing
37	4300730595	HELPER FED D-8	NENE	35	13S	10E	Federal	USA UTU 68315	Producing
38	4300730677	HELPER FED A-5	NENE	23	13S	10E	Federal	USA UTU 58434	Producing
39	4300730678	HELPER FED A-7	SENW	22	13S	10E	Federal	USA UTU 58434	Producing
40	4300730679	HELPER FED B-15	SENE	28	13S	10E	Federal	USA UTU 71392	Producing
41	4300730680	HELPER FED B-16	SWNW	28	13S	10E	Federal	USA UTU 71392	Producing
42	4300730681	HELPER FED C-2	NENW	24	13S	10E	Federal	USA UTU 71391	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
43	4300730682	HELPER FED C-4	NWSW	24	13S	10E	Federal	USA UTU 71391	Producing
44	4300730683	HELPER FED C-6	SWSE	21	13S	10E	Federal	USA UTU 71391	Shut-In
45	4300730684	HELPER FED C-7	SESW	21	13S	10E	Federal	USA UTU 71391	Producing
46	4300730685	HELPER FED D-9	NWNW	25	13S	10E	Federal	USA UTU 68315	Producing
47	4300730686	HELPER FED D-10	SENE	25	13S	10E	Federal	USA UTU 68315	Producing
48	4300730687	HELPER FED D-11	SESW	25	13S	10E	Federal	USA UTU 68315	Producing
49	4300730688	HELPER FED D-12	SESE	25	13S	10E	Federal	USA UTU 68315	Producing
50	4300730689	HELPER FED E-4	NWNE	29	13S	10E	Federal	USA UTU 71675	Producing
51	4300730692	HELPER FED A-4	SWNW	23	13S	10E	Federal	USA UTU 58434	Producing
52	4300730693	HELPER FED C-5	SWNE	24	13S	10E	Federal	USA UTU 71391	Producing
53	4300730694	HELPER FED G-1	C-NW	30	13S	11E	Federal	USA UTU 71677	Producing
54	4300730695	HELPER FED G-2	SWSW	30	13S	11E	Federal	USA UTU 71677	Producing
55	4300730696	HELPER FED G-3	SENW	31	13S	11E	Federal	USA UTU 71677	Producing
56	4300730697	HELPER FED G-4	SESW	31	13S	11E	Federal	USA UTU 71677	Producing
57	4300730698	HELPER FED H-3	SWNE	1	14S	10E	Federal	USA UTU 72352	Producing
58	4300730699	HELPER FED H-4	NESE	1	14S	10E	Federal	USA UTU 72352	Producing
59	4300730702	HELPER FED C-3	SESW	24	13S	10E	Federal	USA UTU 71391	Producing
60	4300730770	HELPER FED G-5	SWNE	30	13S	11E	Federal	USA UTU 71677	Producing
61	4300730771	HELPER FED G-6	SWSE	30	13S	11E	Federal	USA UTU 71677	Producing
62	4300730772	HELPER FED G-7	NWNE	31	13S	11E	Federal	USA UTU 71677	Producing
63	4300730773	HELPER FED G-8	NESE	31	13S	11E	Federal	USA UTU 71677	Producing
64	4300730776	HELPER FED E-8	SENE	19	13S	10E	Federal	USA UTU 77980	Producing
65	4300730868	HELPER FED E-9	SESW	19	13S	10E	Federal	USA UTU 77980	Producing
66	4300730869	HELPER FED E-5	SWSW	20	13S	10E	Federal	USA UTU 71675	Producing
67	4300730870	HELPER FED E-6	SWNW	20	13S	10E	Federal	USA UTU 71675	Producing
68	4300730871	HELPER FED E-10	NENW	30	13S	10E	Federal	USA UTU 71675	Producing
69	4300730873	HELPER FED E-11	NWNE	30	13S	10E	Federal	USA UTU 71675	Producing
70	4300730119	SHIMMIN TRUST 3	SENW	14	12S	10E	Fee (Private)		Plugged and Abandoned
71	4300730120	SHIMMIN TRUST 1	SESE	11	12S	10E	Fee (Private)		Plugged and Abandoned
72	4300730121	SHIMMIN TRUST 2	SENE	14	12S	10E	Fee (Private)		Plugged and Abandoned
73	4300730123	SHIMMIN TRUST 4	SESW	11	12S	10E	Fee (Private)		Plugged and Abandoned
74	4300730158	SLEMAKER A-1	SWNE	5	12S	12E	Fee (Private)		Plugged and Abandoned
75	4300730161	JENSEN 16-10	SESE	10	12S	10E	Fee (Private)		Plugged and Abandoned
76	4300730165	JENSEN 7-15	SWNE	15	12S	10E	Fee (Private)		Plugged and Abandoned
77	4300730168	SHIMMIN TRUST 12-12	NWSW	12	12S	10E	Fee (Private)		Plugged and Abandoned
78	4300730175	JENSEN 11-15	NESW	15	12S	10E	Fee (Private)		Plugged and Abandoned
79	4300730188	BRYNER A-1	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
80	4300730209	BRYNER A-1X (RIG SKID)	NESE	11	12S	12E	Fee (Private)		Plugged and Abandoned
81	4300730348	BIRCH A-1	NWSW	5	14S	10E	Fee (Private)		Producing
82	4300730352	CHUBBUCK A-1	NESE	31	13S	10E	Fee (Private)		Producing
83	4300730353	VEA A-1	SWNW	32	13S	10E	Fee (Private)		Producing
84	4300730354	VEA A-2	NENE	32	13S	10E	Fee (Private)		Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
85	4300730355	VEA A-3	SESW	32	13S	10E	Fee (Private)		Producing
86	4300730356	VEA A-4	NWSE	32	13S	10E	Fee (Private)		Producing
87	4300730372	BIRCH A-2	NWNW	8	14S	10E	Fee (Private)		Producing
88	4300730570	SE INVESTMENTS A-1	NESE	6	14S	10E	Fee (Private)		Producing
89	4300730586	HARMOND A-1	SENE	7	14S	10E	Fee (Private)		Producing
90	4300730604	CHUBBUCK A-2	SENW	6	14S	10E	Fee (Private)		Producing
91	4300730726	CLAWSON SPRING ST J-1	SESW	35	15S	8E	Fee (Private)		Producing
92	4300730727	PIERUCCI 1	SENW	35	15S	8E	Fee (Private)		Producing
93	4300730728	POTTER ETAL 1	SWNE	35	15S	8E	Fee (Private)		Producing
94	4300730737	POTTER ETAL 2	NESE	35	15S	8E	Fee (Private)		Producing
95	4300730774	GOODALL A-1	NWSW	6	14S	11E	Fee (Private)		Producing
96	4300730781	HAUSKNECHT A-1	SWNW	21	13S	10E	Fee (Private)		Producing
97	4300730872	SACCOMANNO A-1	NESE	30	13S	10E	Fee (Private)		Producing
98	4300730885	BLACKHAWK A-1	SESE	20	13S	10E	Fee (Private)		Plugged and Abandoned
99	4300730886	BLACKHAWK A-2	NWNW	29	13S	10E	Fee (Private)		Producing
100	4300730914	BLACKHAWK A-3	SENE	20	13S	10E	Fee (Private)		Producing
101	4300730915	BLACKHAWK A-4	NENE	21	13S	10E	Fee (Private)		Producing
102	4300730923	BLACKHAWK A-1X	SESE	20	13S	10E	Fee (Private)		Producing
103	4300731402	BLACKHAWK A-5H	NENE	20	13S	10E	Fee (Private)		Plugged and Abandoned
104	4300750075	VEA 32-32	SWNE	32	13S	10E	Fee (Private)		Producing
105	4301530468	CLAWSON SPRING ST IPA-1	SESE	10	16S	8E	Fee (Private)		Producing
106	4301530469	CLAWSON SPRING ST IPA-2	NENE	15	16S	8E	Fee (Private)		Producing
107	4300730132	ST 9-16	NESE	16	12S	10E	State	ML-44443	Plugged and Abandoned
108	4300730133	ST 2-16	NWNE	16	12S	10E	State	ML-44443	Plugged and Abandoned
109	4300730141	MATTS SUMMIT ST A-1	NWNW	14	12S	9E	State	ML-44496	Plugged and Abandoned
110	4300730349	HELPER ST A-1	SENW	3	14S	10E	State	ST UT ML 45805	Producing
111	4300730350	HELPER ST D-7	NWSW	4	14S	10E	State	ST UT ML 45804	Producing
112	4300730357	HELPER ST A-8	NWSE	2	14S	10E	State	ST UT ML 45805	Producing
113	4300730358	HELPER ST A-3	NWNW	2	14S	10E	State	ST UT ML 45805	Producing
114	4300730359	HELPER ST A-4	NWNE	2	14S	10E	State	ST UT ML 45805	Producing
115	4300730360	HELPER ST A-7	NESW	2	14S	10E	State	ST UT ML 45805	Producing
116	4300730362	HELPER ST A-2	NENE	3	14S	10E	State	ST UT ML 45805	Producing
117	4300730363	HELPER ST A-5	NESW	3	14S	10E	State	ST UT ML 45805	Producing
118	4300730364	HELPER ST A-6	NESE	3	14S	10E	State	ST UT ML 45805	Producing
119	4300730365	HELPER ST D-4	SWNW	4	14S	10E	State	ST UT ML 45804	Producing
120	4300730366	HELPER ST D-3	NENE	5	14S	10E	State	ST UT ML 45804	Producing
121	4300730367	HELPER ST D-5	NWNE	4	14S	10E	State	ST UT ML 45804	Producing
122	4300730368	HELPER ST D-8	SESE	4	14S	10E	State	ST UT ML 45804	Producing
123	4300730369	HELPER ST D-2	NENW	5	14S	10E	State	ST UT ML 45804	Producing
124	4300730370	HELPER ST D-6	SESE	5	14S	10E	State	ST UT ML 45804	Producing
125	4300730371	HELPER ST D-1	NENE	6	14S	10E	State	ST UT ML 45804	Producing
126	4300730373	HELPER ST A-9	SENW	10	14S	10E	State	ST UT ML 45805	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
127	4300730376	HELPER ST B-1	SWNE	9	14S	10E	State	ST UT ML 47556	Producing
128	4300730433	HELPER ST A-10	NWNE	10	14S	10E	State	ST UT ML 45805	Producing
129	4300730434	HELPER ST A-11	SWNW	11	14S	10E	State	ST UT ML 45805	Producing
130	4300730435	HELPER ST A-12	NWSW	10	14S	10E	State	ST UT ML 45805	Producing
131	4300730436	HELPER ST A-13	NESE	10	14S	10E	State	ST UT ML 45805	Producing
132	4300730437	HELPER ST B-2	NESE	9	14S	10E	State	ST UT ML 47556	Producing
133	4300730571	HELPER ST A-14	SESW	11	14S	10E	State	ST UT ML 45805	Producing
134	4300730572	HELPER ST A-15	SENE	11	14S	10E	State	ST UT ML 45805	Producing
135	4300730573	HELPER ST E-1	SESW	36	13S	10E	State	ST UT ML 45802	Producing
136	4300730574	HELPER ST E-2	SWNW	36	13S	10E	State	ST UT ML 45802	Producing
137	4300730592	HELPER ST E-3	NENE	36	13S	10E	State	ST UT ML 45802	Producing
138	4300730597	CLAWSON SPRING ST A-1	SWSE	36	15S	8E	State	ST UT ML 46106	Producing
139	4300730598	HELPER ST E-4	SWSE	36	13S	10E	State	ST UT ML 45802	Producing
140	4300730603	HELPER ST A-16	SWSE	11	14S	10E	State	ST UT ML 45805	Producing
141	4300730635	CLAWSON SPRING ST A-2	NWNW	36	15S	8E	State	ST UT ML 46106	Producing
142	4300730636	CLAWSON SPRING ST A-3	NESW	36	15S	8E	State	ST UT ML 46106	Producing
143	4300730637	CLAWSON SPRING ST A-4	NWNE	36	15S	8E	State	ST UT ML 46106	Producing
144	4300730642	CLAWSON SPRING ST D-5	NENW	31	15S	9E	State	ML-48226	Producing
145	4300730643	CLAWSON SPRING ST D-6	SWSW	31	15S	9E	State	ML-48226	Producing
146	4300730644	CLAWSON SPRING ST D-7	NWNE	31	15S	9E	State	ML-48226	Producing
147	4300730701	CLAWSON SPRING ST D-8	NWSE	31	15S	9E	State	ML-48226	Producing
148	4300750070	HELPER STATE 12-3	SWNW	3	14S	10E	State	ST UT ML 45805	Producing
149	4300750071	HELPER STATE 32-3	SWNE	3	14S	10E	State	ST UT ML 45805	Producing
150	4300750072	HELPER STATE 32-36	SWNE	36	13S	10E	State	ST UT ML 45802	Producing
151	4301530391	UTAH 10-415	NENE	10	16S	8E	State	ST UT ML 48189	Temporarily-Abandoned
152	4301530392	CLAWSON SPRING ST E-7	SENE	7	16S	9E	State	ST UT ML 48220-A	Producing
153	4301530394	CLAWSON SPRING ST E-8	SWSE	7	16S	9E	State	ST UT ML 48220-A	Producing
154	4301530403	CLAWSON SPRING ST E-3	SENE	6	16S	9E	State	ST UT ML 48220-A	Producing
155	4301530404	CLAWSON SPRING ST E-1	SENW	6	16S	9E	State	ST UT ML 48220-A	Producing
156	4301530405	CLAWSON SPRING ST E-2	NESW	6	16S	9E	State	ST UT ML 48220-A	Producing
157	4301530406	CLAWSON SPRING ST E-4	NWSE	6	16S	9E	State	ST UT ML 48220-A	Producing
158	4301530410	CLAWSON SPRING ST C-1	SWNW	12	16S	8E	State	ST UT UO 48209	Producing
159	4301530427	CLAWSON SPRING ST B-1	NENW	1	16S	8E	State	ST UT ML 48216	Producing
160	4301530428	CLAWSON SPRING ST B-2	NWSW	1	16S	8E	State	ST UT ML 48216	Producing
161	4301530429	CLAWSON SPRING ST B-3	NWNE	1	16S	8E	State	ST UT ML 48216	Producing
162	4301530430	CLAWSON SPRING ST B-4	SESE	1	16S	8E	State	ST UT ML 48216	Producing
163	4301530431	CLAWSON SPRING ST B-5	SWSW	12	16S	8E	State	ST UT ML 48216	Producing
164	4301530432	CLAWSON SPRING ST B-8	SENE	11	16S	8E	State	ST UT ML 48216	Producing
165	4301530433	CLAWSON SPRING ST B-9	NWSE	11	16S	8E	State	ST UT ML 48216	Producing
166	4301530434	CLAWSON SPRING ST C-2	SENE	12	16S	8E	State	ST UT UO 48209	Producing
167	4301530435	CLAWSON SPRING ST C-4	SWNW	14	16S	8E	State	ST UT UO 48209	Producing
168	4301530460	CLAWSON SPRING ST B-7	NWSW	11	16S	8E	State	ST UT ML 48216	Producing

	API Well Number	Well Name	Qtr/Qtr	Section	Township	Range	Mineral Lease Type	Mineral Lease Number	Well Status
169	4301530461	CLAWSON SPRING ST C-6	SENE	14	16S	8E	State	ST UT UO 48209	Producing
170	4301530463	CLAWSON SPRING ST C-3	C-SE	12	16S	8E	State	ST UT UO 48209	Producing
171	4301530465	CLAWSON SPRING ST B-6	NENW	11	16S	8E	State	ST UT ML 48216	Producing
172	4301530466	CLAWSON SPRING ST H-1	NENW	13	16S	8E	State	ST UT ML 48217-A	Producing
173	4301530467	CLAWSON SPRING ST H-2	NENE	13	16S	8E	State	ST UT ML 48217-A	Producing
174	4301530470	CLAWSON SPRING ST E-5	NENW	7	16S	9E	State	ST UT ML 48220-A	Producing
175	4301530471	CLAWSON SPRING ST G-1	NWNW	2	16S	8E	State	ST UT ML 46314	Producing
176	4301530472	CLAWSON SPRING ST F-2	NESE	3	16S	8E	State	ST UT ML 48515	Producing
177	4301530473	CLAWSON SPRING ST F-1	SENE	3	16S	8E	State	ST UT ML 48514	Producing
178	4301530474	CLAWSON SPRING ST E-6	SESW	7	16S	9E	State	ST UT ML 48220-A	Producing
179	4301530475	CLAWSON SPRING ST G-2	NESW	2	16S	8E	State	ST UT ML 46314	Producing
180	4301530488	CLAWSON SPRING ST M-1	NWNE	2	16S	8E	State	ST UT ML 47561	Producing
181	4301530489	CLAWSON SPRING ST K-1	SESE	2	16S	8E	State	ST UT ML 46043	Producing